

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034374.D
 Acq On : 19 Nov 2019 9:49
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:52:54 PM

Quant Time: Nov 19 11:25:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1064840	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2182058	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.14	117	2284667m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.48	95	1911448	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1858347	10.123	ppbv	97
3) Chlorodifluoromethane	2.96	51	1186579	9.507	ppbv	99
4) Chloromethane	3.11	50	692935	9.386	ppbv	97
5) Vinyl Chloride	3.23	62	653766	9.287	ppbv	95
6) Bromomethane	3.45	94	349899	10.151	ppbv	94
7) Chloroethane	3.54	64	240763	9.718	ppbv	99
8) Dichlorotetrafluoroethane	3.16	85	1529498	9.615	ppbv	98
9) Propene	2.98	41	526489	9.516	ppbv	99
10) Heptane	8.16	43	1397552	9.842	ppbv	99
11) Trichlorofluoromethane	3.94	101	1685520	9.671	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1120742	9.815	ppbv	100
13) Ethanol	3.59	45	124169	10.024	ppbv	92
14) Bromoethene	3.72	108	485145	10.791	ppbv	99
15) Acetone	3.83	43	1233448	8.098	ppbv	100
16) 1,3-Butadiene	3.30	39	621004	10.035	ppbv	99
17) tert-Butyl alcohol	4.29	59	1219970	12.550	ppbv	100
18) 1,1-Dichloroethene	4.28	96	506527	10.131	ppbv	94
19) Isopropyl Alcohol	3.95	45	978176	11.512	ppbv	99
20) Methylene Chloride	4.34	84	450618	8.184	ppbv	98
21) Allyl Chloride	4.41	41	865447	10.278	ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	520309	10.434	ppbv	95
23) Vinyl Acetate	5.08	43	1862283	9.791	ppbv	98
24) 1,1-Dichloroethane	5.01	63	1371789	9.718	ppbv	99
25) Ethyl Acetate	5.69	43	2420183	9.412	ppbv	99
26) Hexane	5.70	57	1039382	9.483	ppbv	98
27) Carbon Disulfide	4.55	76	1330473	11.693	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	1822945	10.990	ppbv	98
29) Chloroform	5.77	83	1717162	9.905	ppbv	100
30) Cyclohexane	7.16	84	855081	10.608	ppbv	93
31) cis-1,2-Dichloroethene	5.56	61	1150058	10.339	ppbv	99
32) 1,1,1-Trichloroethane	6.54	97	1722561	10.217	ppbv	99
34) 2-Butanone	5.25	43	1614392	9.051	ppbv	98
35) Carbon Tetrachloride	7.05	117	1780031	9.366	ppbv	99
36) Benzene	6.92	78	2018546	9.641	ppbv	97
37) 1,2-Dichloroethane	6.33	62	1477922	9.472	ppbv	100
38) Trichloroethene	7.87	130	805154m	9.584	ppbv	
39) 1,2-Dichloropropane	7.65	63	846618	9.391	ppbv	98
40) 1,4-Dioxane	7.86	88	326448	10.304	ppbv #	1
41) Tetrahydrofuran	6.06	42	931867	9.414	ppbv	95
42) Bromodichloromethane	7.83	83	1919079	10.042	ppbv	99
43) Methyl Methacrylate	8.05	69	857922	9.908	ppbv	96

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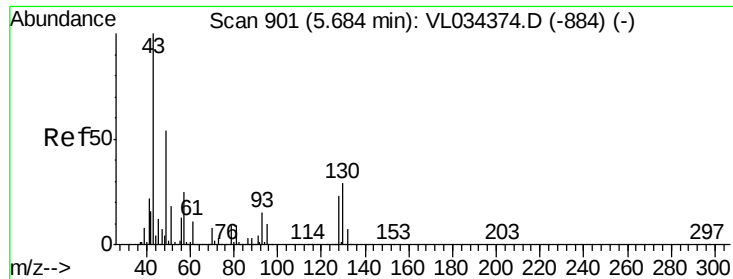
Manual Integrations
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Quant Time: Nov 19 11:25:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	3558401	9.183	ppbv	99
45) t-1,3-Dichloropropene	9.32	75	1226245	11.623	ppbv	100
46) cis-1,3-Dichloropropene	8.74	75	1350935	11.146	ppbv	98
47) 1,1,2-Trichloroethane	9.52	97	867274	9.498	ppbv	97
48) Dibromochloromethane	10.36	129	1592475	10.631	ppbv	99
49) Bromoform	13.10	173	1446067	10.895	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	2393452	9.374	ppbv	99
51) 2-Hexanone	10.18	43	2025042	9.675	ppbv	98
52) Tetrachloroethene	11.28	164	783775	9.551	ppbv	94
53) Toluene	9.85	91	2362570	10.225	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1335949	9.871	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.19	131	1044182	9.917	ppbv	97
57) Chlorobenzene	12.20	112	1802786	9.459	ppbv	98
58) Ethyl Benzene	12.77	91	3248646	10.172	ppbv	99
59) m/p-Xylene	13.06	91	5482492m	19.813	ppbv	
60) o-Xylene	13.75	91	2687744	9.754	ppbv	99
61) Styrene	13.59	104	2040767	10.520	ppbv	99
62) Isopropylbenzene	14.73	105	3545761	9.748	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	1886379	8.519	ppbv	100
64) n-propylbenzene	15.63	120	927981	9.941	ppbv	98
65) tert-Butylbenzene	16.81	119	3128206	9.703	ppbv	100
66) Benzyl Chloride	17.06	91	1523315	11.964	ppbv	100
67) sec-Butylbenzene	17.36	105	4319791	9.522	ppbv	99
69) p-Isopropyltoluene	17.72	119	3619565	9.786	ppbv	99
70) n-Butylbenzene	18.62	91	3832024	9.522	ppbv	99
71) 2-Chlorotoluene	15.52	91	2808849	9.959	ppbv	100
72) 4-Ethyltoluene	15.90	105	3116971	10.063	ppbv	99
73) 1,3,5-Trimethylbenzene	16.06	105	3013369	9.819	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	3063462	9.572	ppbv #	93
75) 1,3-Dichlorobenzene	17.07	146	1751571	9.116	ppbv	100
76) 1,4-Dichlorobenzene	17.21	146	1757986	9.367	ppbv	99
77) 1,2-Dichlorobenzene	17.89	146	1708186	9.068	ppbv	99
78) Hexachloro-1,3-Butadiene	23.45	225	1426326	9.153	ppbv	99
79) Naphthalene	22.29	128	2734147	11.695	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1521462	22.515	ppbv	95
81) 1,2,4-Trichlorobenzene	22.02	180	1640936	10.747	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1064840

Ion Ratio Lower Upper

49 100

128 43.5 20.6 61.8

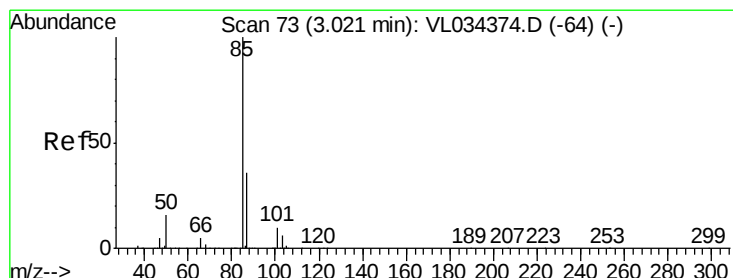
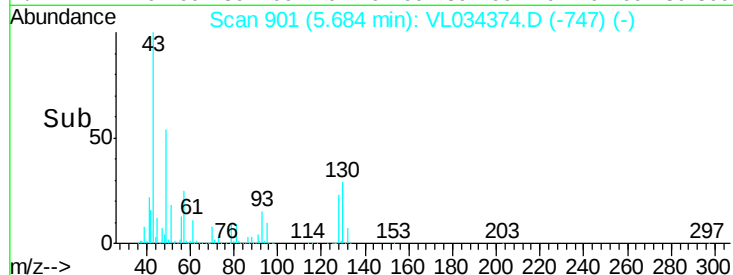
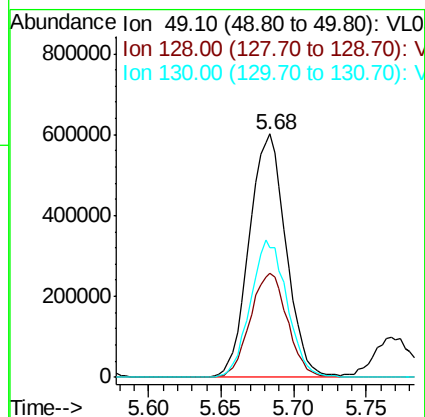
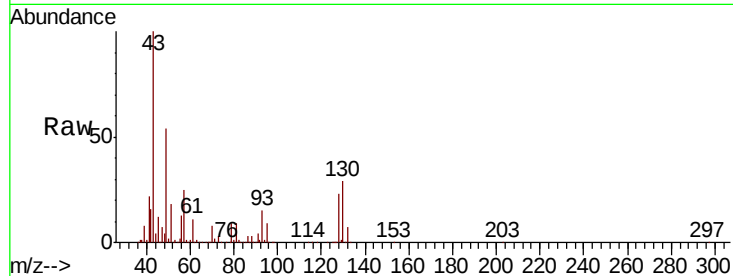
130 56.0 26.2 78.5

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#2

Dichlorodifluoromethane

Concen: 10.123 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.01 min

Lab File: VL034374.D

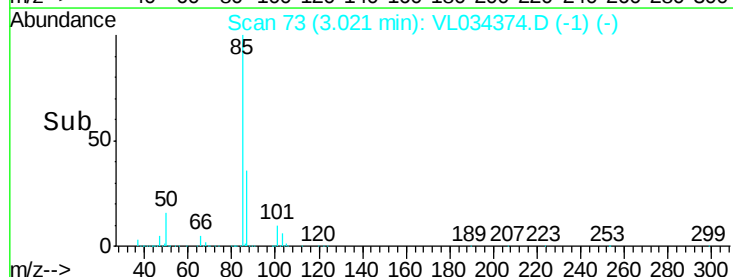
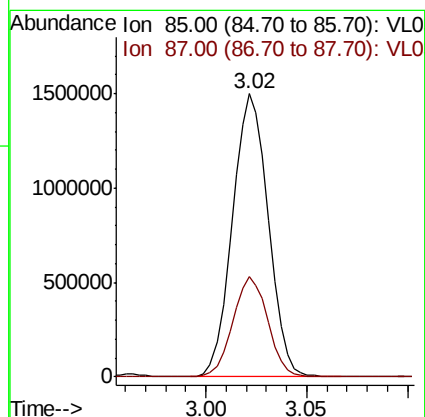
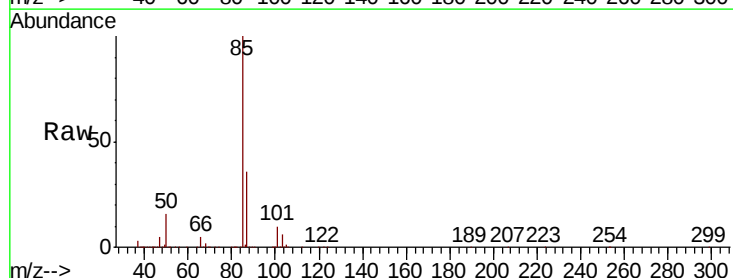
Acq: 19 Nov 2019 9:49

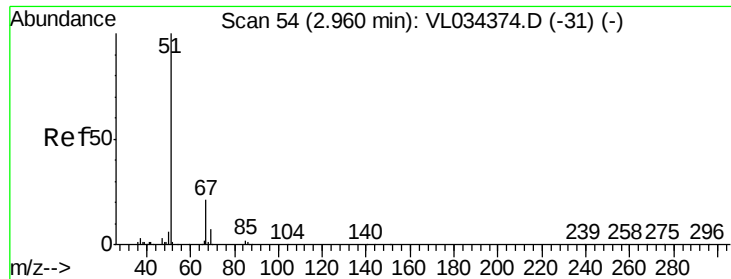
Tgt Ion: 85 Resp: 1858347

Ion Ratio Lower Upper

85 100

87 35.6 27.0 40.6





#3

Chlorodifluoromethane

Concen: 9.507 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 51 Resp: 1186579

Ion Ratio Lower Upper

51 100

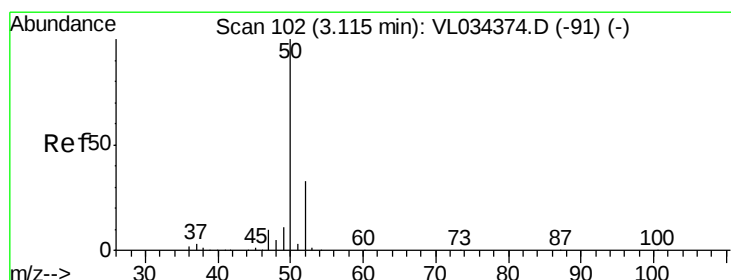
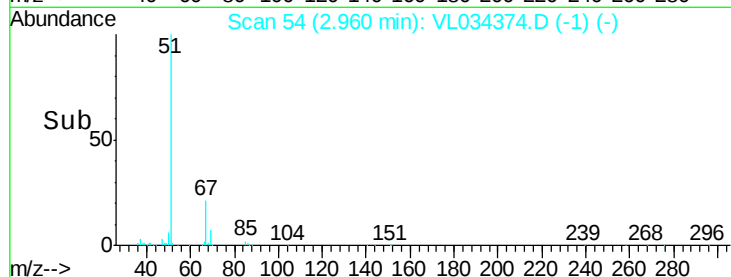
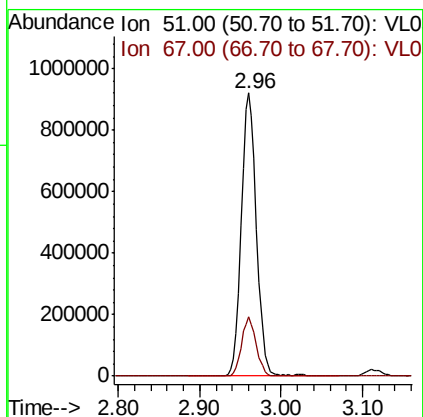
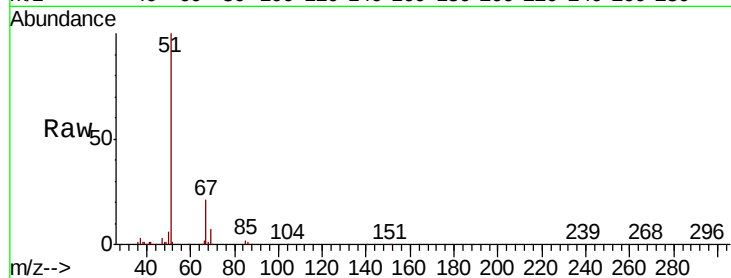
67 20.2 15.8 23.8

Manual Integrations

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#4

Chloromethane

Concen: 9.386 ppbv

RT: 3.11 min Scan# 102

Delta R.T. -0.01 min

Lab File: VL034374.D

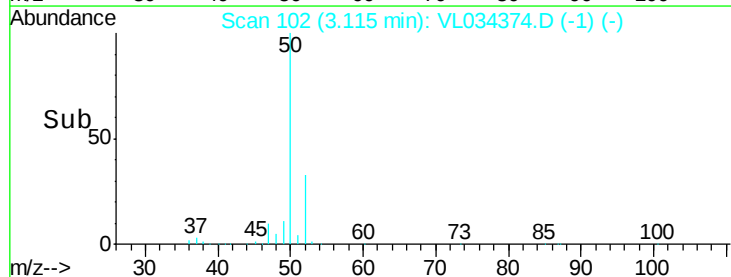
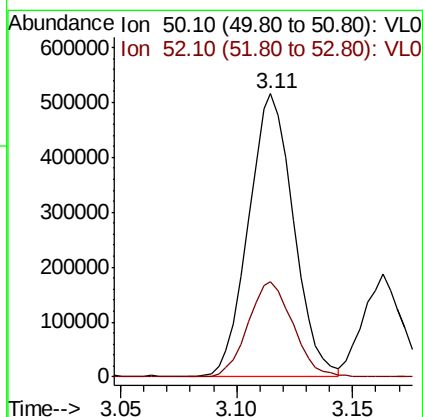
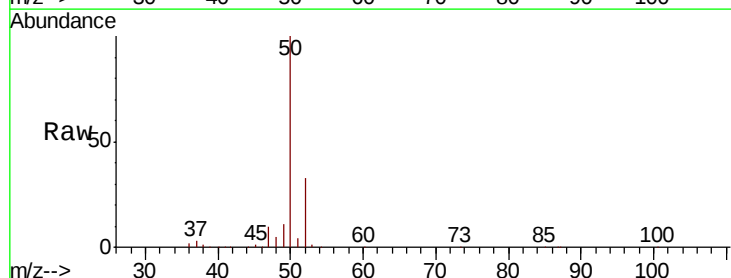
Acq: 19 Nov 2019 9:49

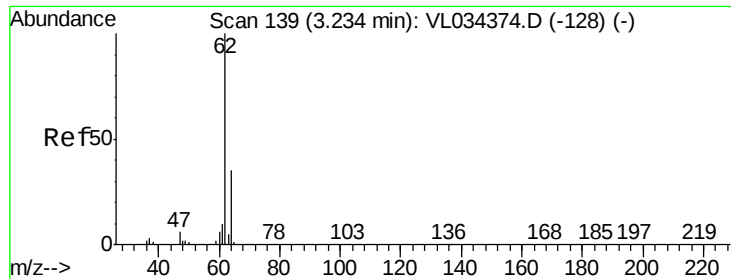
Tgt Ion: 50 Resp: 692935

Ion Ratio Lower Upper

50 100

52 33.5 25.4 38.2





#5

Vinyl Chloride

Concen: 9.287 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 653766

Ion Ratio Lower Upper

62 100

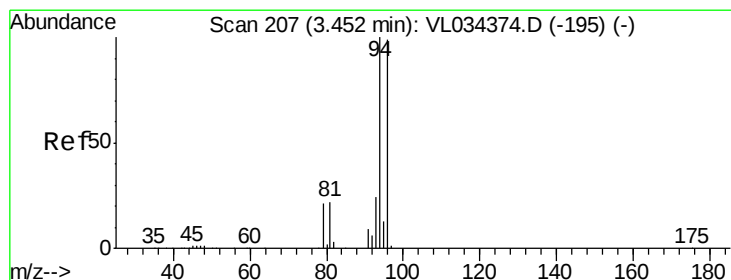
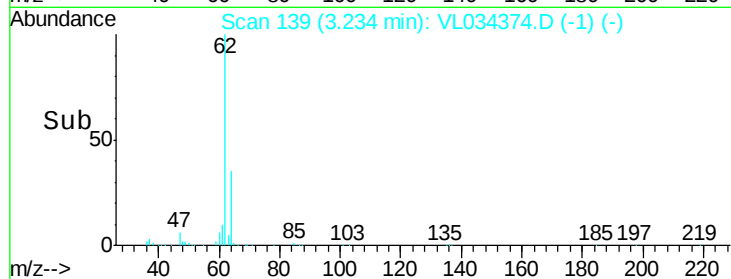
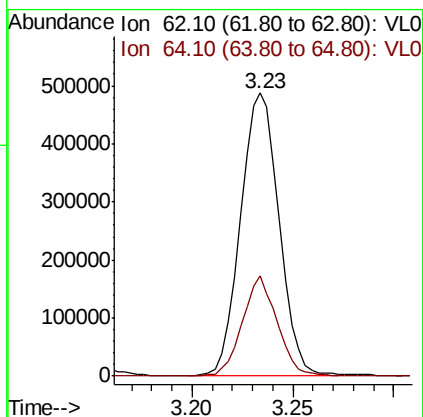
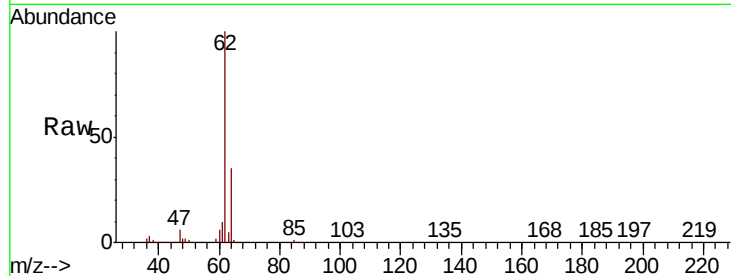
64 35.5 26.0 39.0

Manual Integrations

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#6

Bromomethane

Concen: 10.151 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.01 min

Lab File: VL034374.D

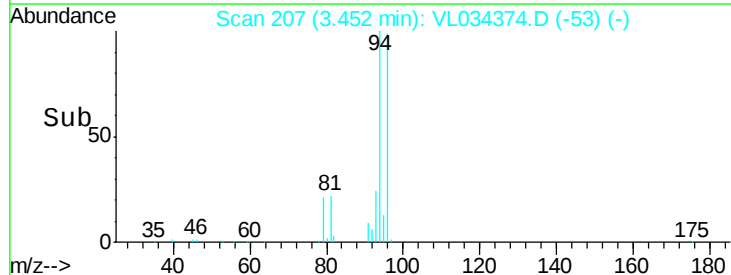
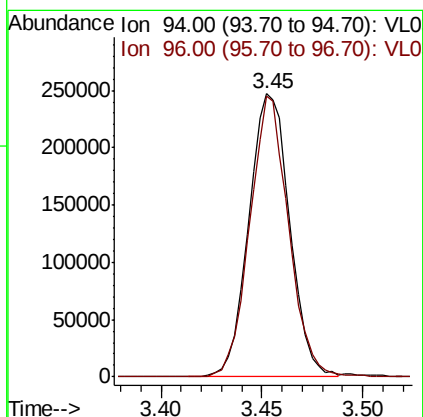
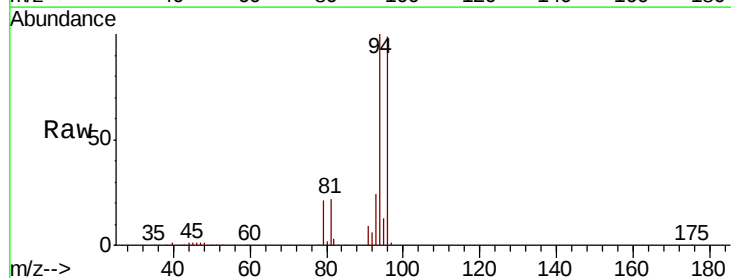
Acq: 19 Nov 2019 9:49

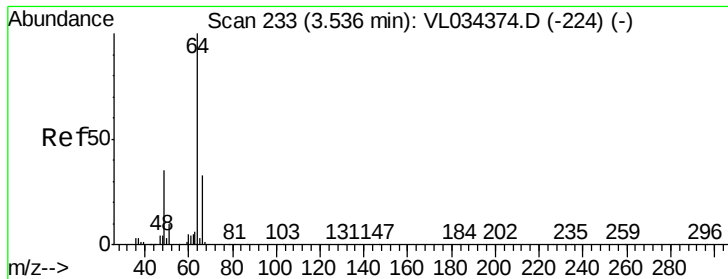
Tgt Ion: 94 Resp: 349899

Ion Ratio Lower Upper

94 100

96 99.4 74.6 112.0





#7

Chloroethane

Concen: 9.718 ppbv

RT: 3.54 min Scan# 233

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 240763

Ion Ratio Lower Upper

64 100

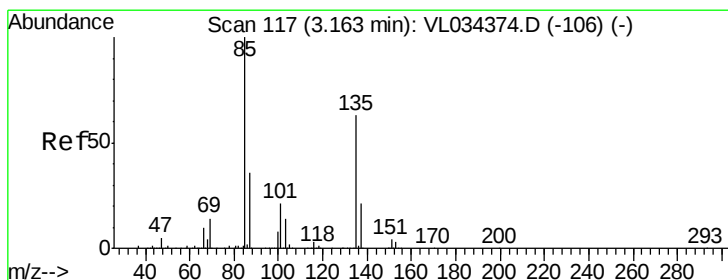
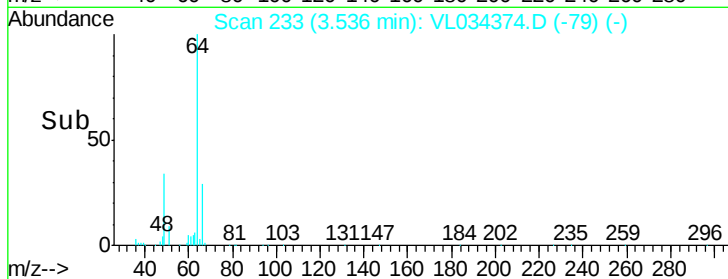
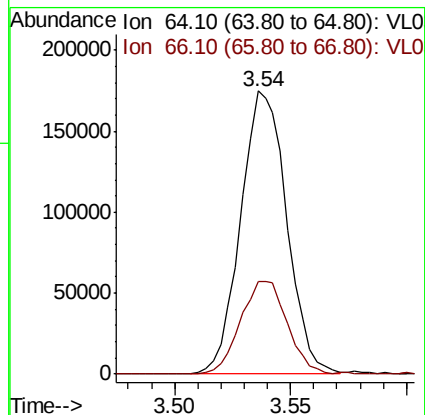
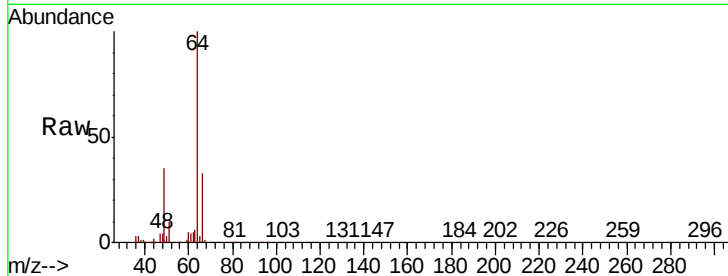
66 32.5 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.615 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.01 min

Lab File: VL034374.D

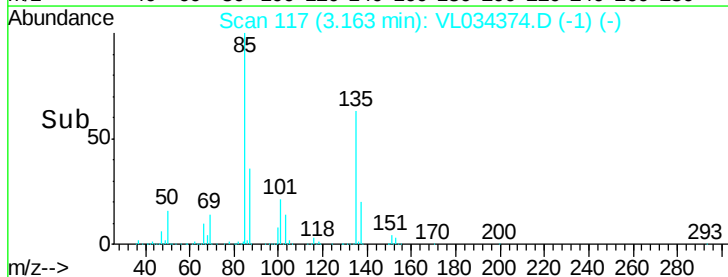
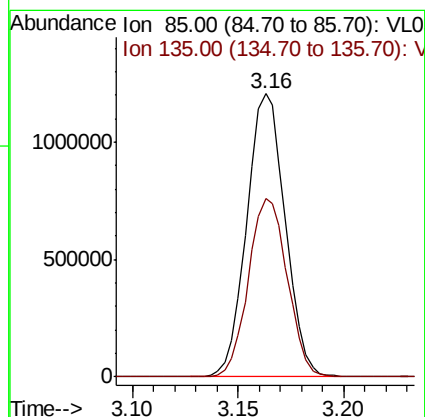
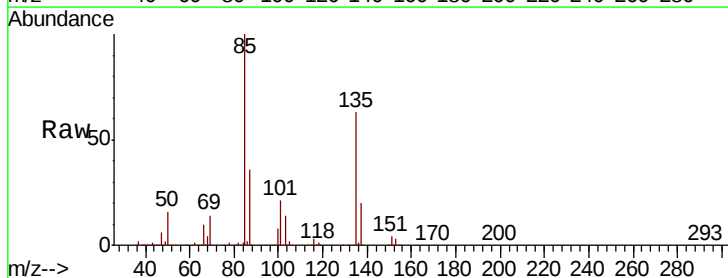
Acq: 19 Nov 2019 9:49

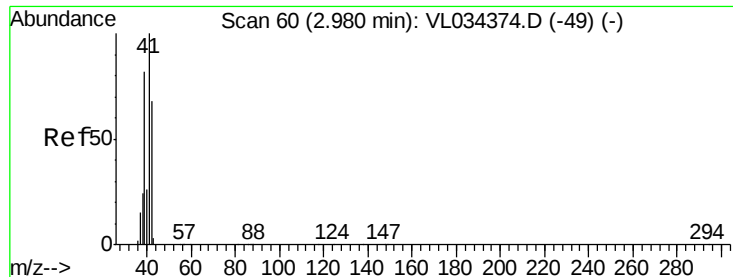
Tgt Ion: 85 Resp: 1529498

Ion Ratio Lower Upper

85 100

135 63.9 50.2 75.2





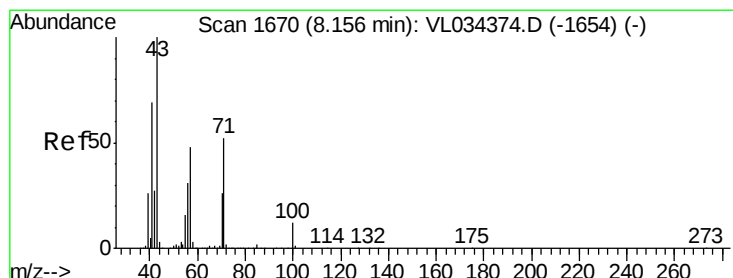
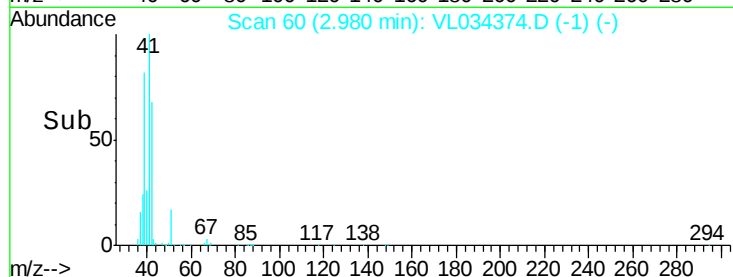
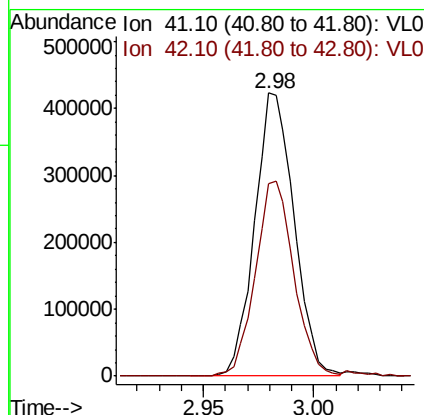
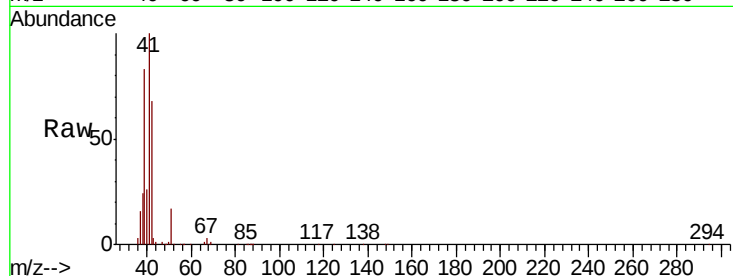
#9
 Propene
 Concen: 9.516 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
42	68.3	53.9	80.9

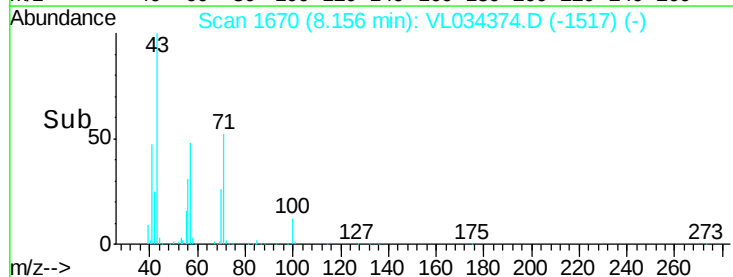
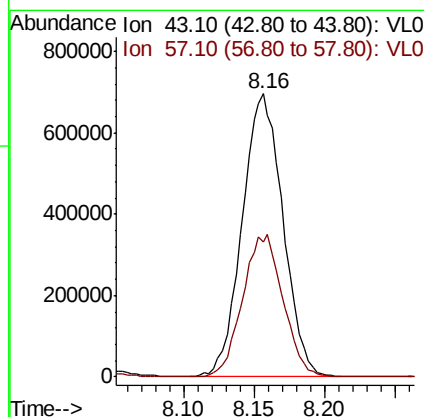
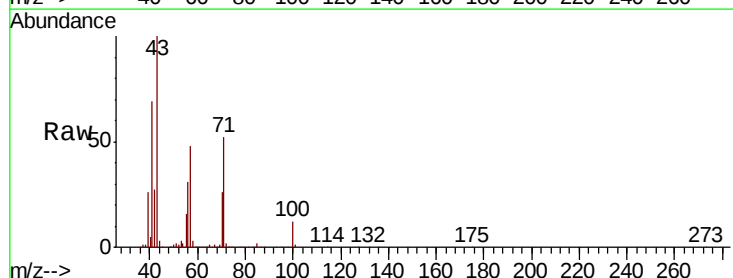
Manual Integrations
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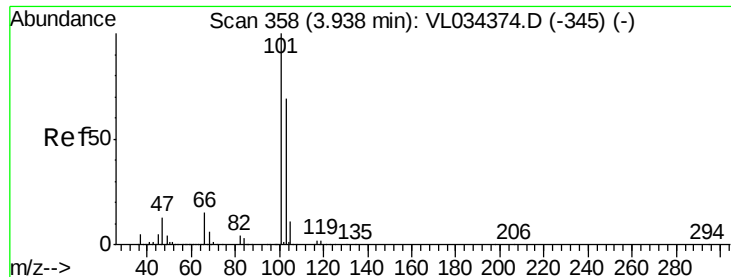
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 11/20/2019 3:52:54 PM



#10
 Heptane
 Concen: 9.842 ppbv
 RT: 8.16 min Scan# 1670
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
43	100		
57	50.2	39.5	59.3





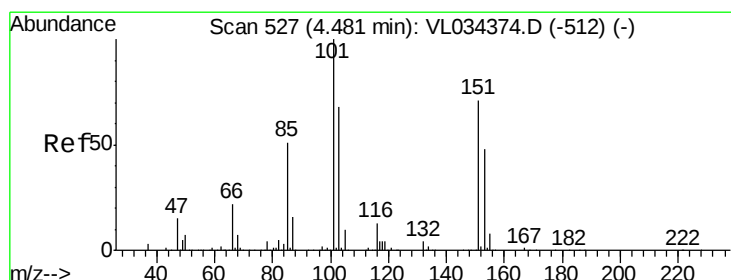
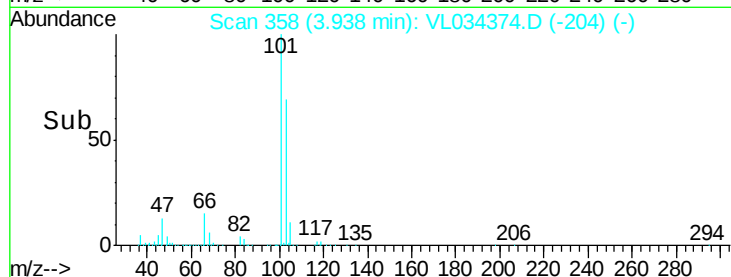
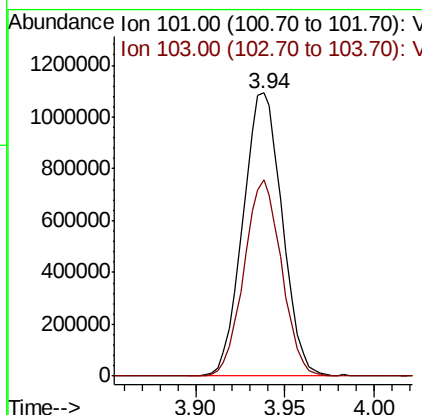
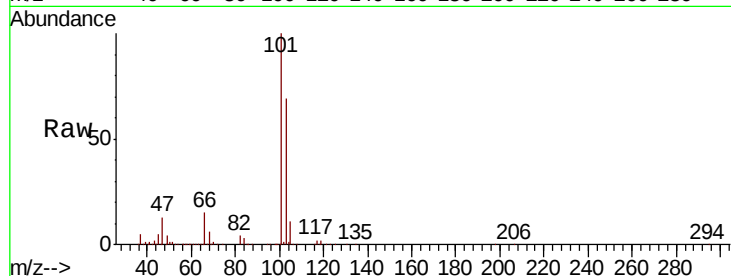
#11
 Trichlorofluoromethane
 Concen: 9.671 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 1685520
 Ion Ratio Lower Upper
 101 100
 103 69.2 54.5 81.7

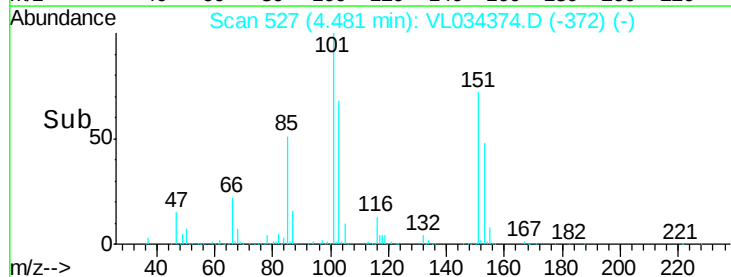
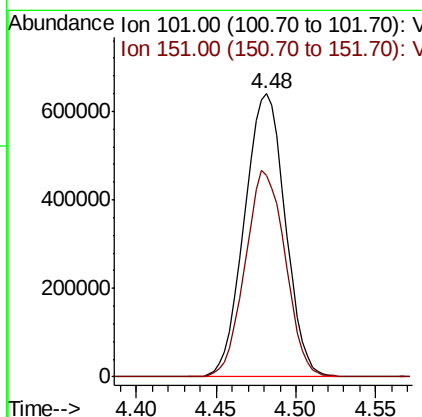
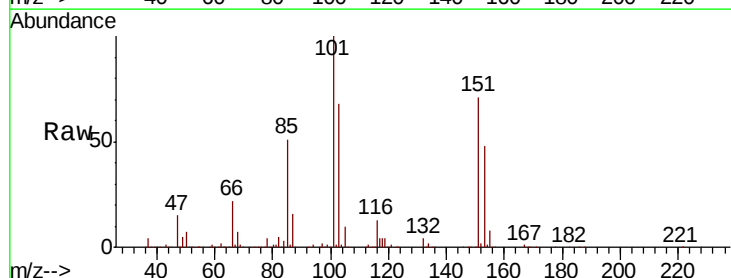
Manual Integrations
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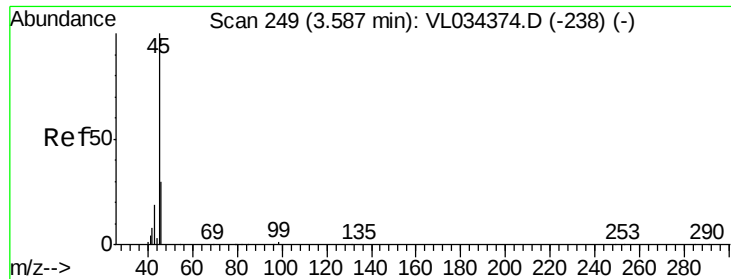
MMDadoda
 11/20/2019 3:52:54 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.815 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion:101 Resp: 1120742
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.4 86.2





#13

Ethanol

Concen: 10.024 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 124169

Ion Ratio Lower Upper

45 100

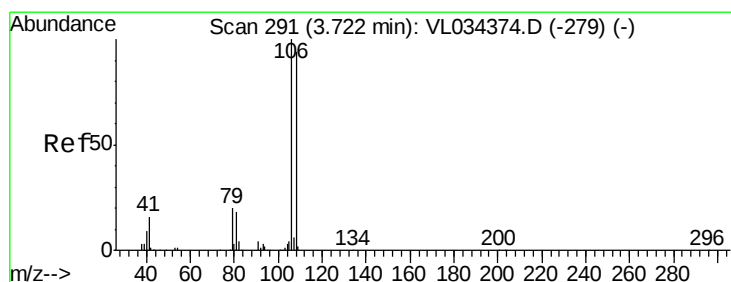
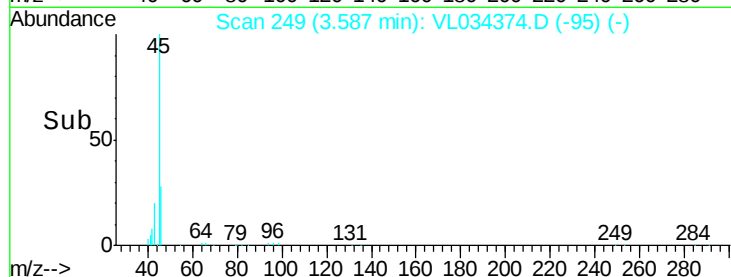
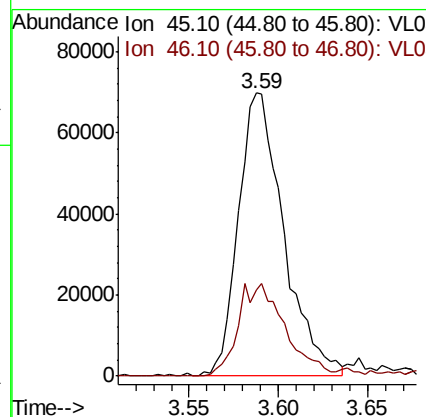
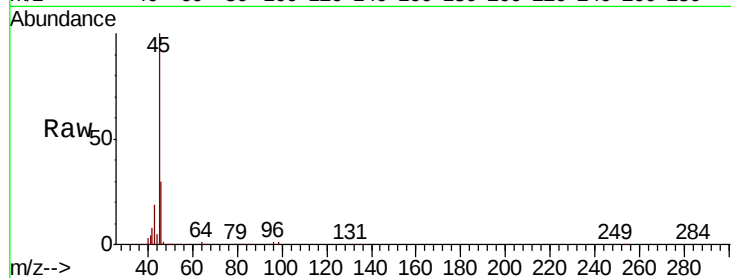
46 34.6 15.8 63.2

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#14

Bromoethene

Concen: 10.791 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

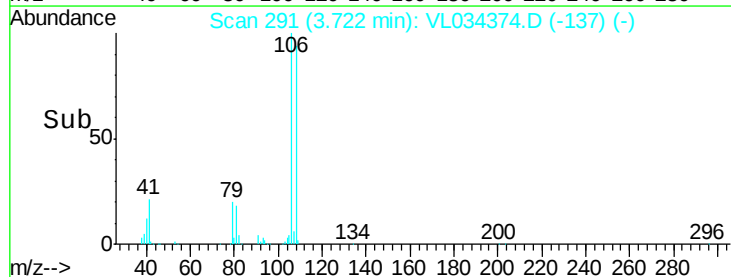
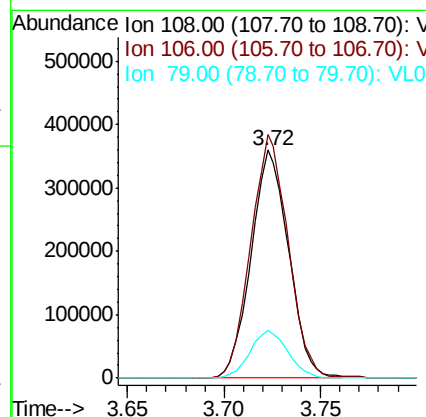
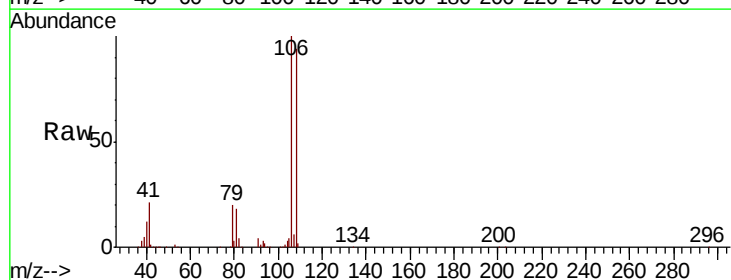
Tgt Ion: 108 Resp: 485145

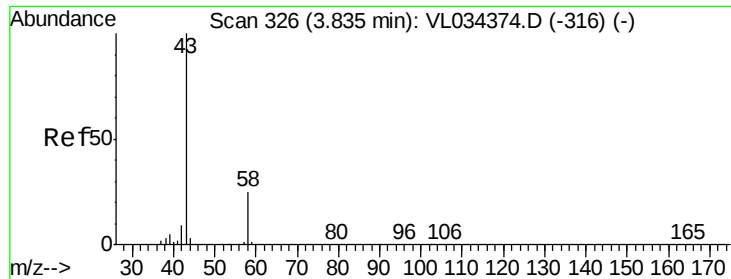
Ion Ratio Lower Upper

108 100

106 107.1 84.8 127.2

79 21.5 17.0 25.4





#15

Acetone

Concen: 8.098 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1233448

Ion Ratio Lower Upper

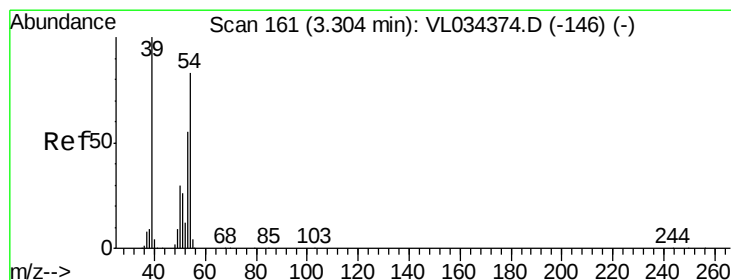
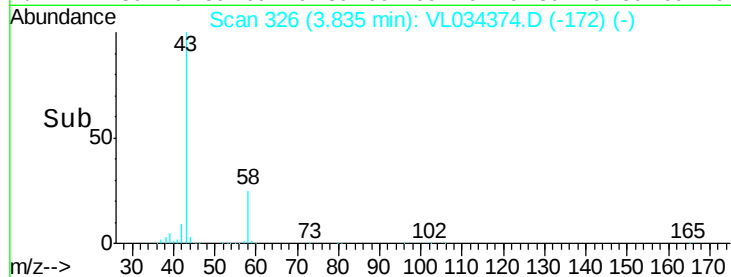
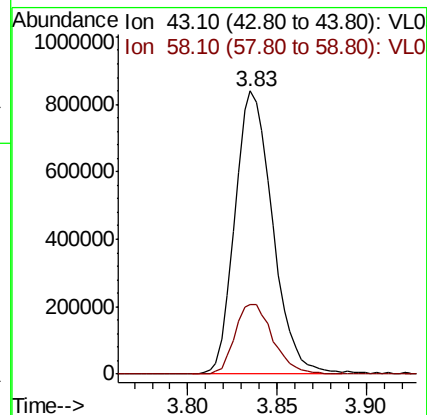
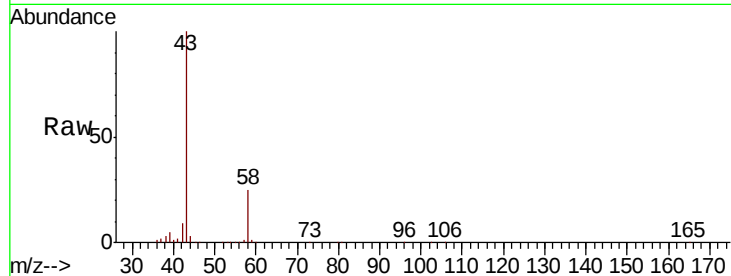
43 100

58 25.3 20.4 30.6

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#16

1,3-Butadiene

Concen: 10.035 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.01 min

Lab File: VL034374.D

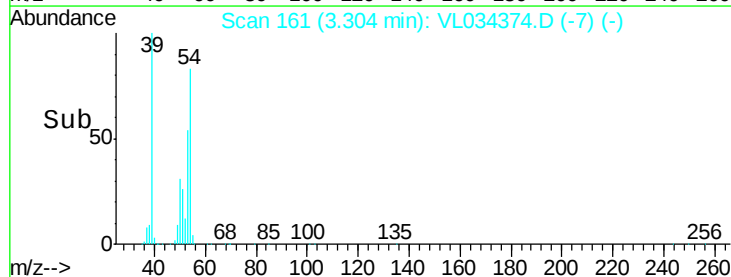
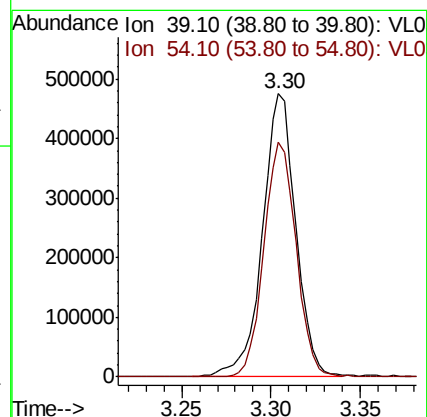
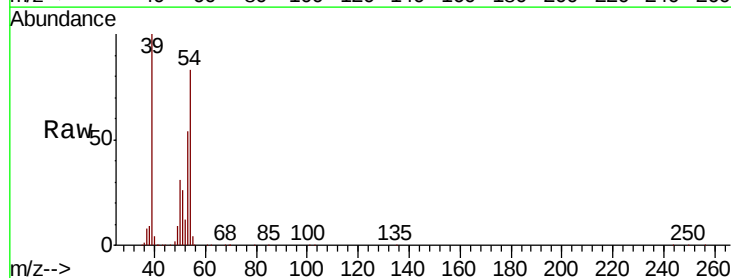
Acq: 19 Nov 2019 9:49

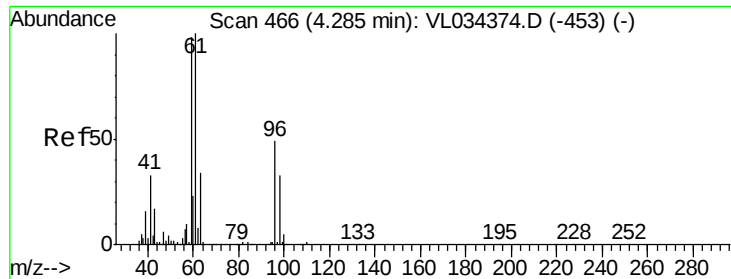
Tgt Ion: 39 Resp: 621004

Ion Ratio Lower Upper

39 100

54 80.9 63.9 95.9





#17

tert-Butyl alcohol

Concen: 12.550 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 59 Resp: 1219970

Ion Ratio Lower Upper

59 100

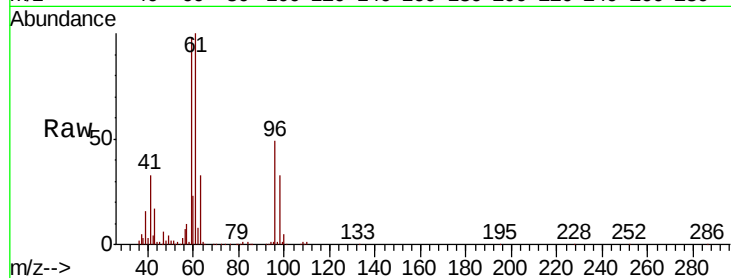
57 11.0 8.8 13.2

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

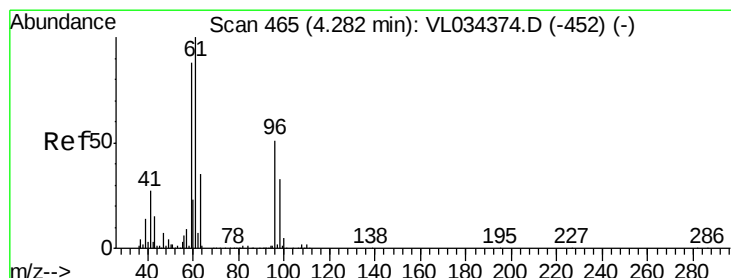
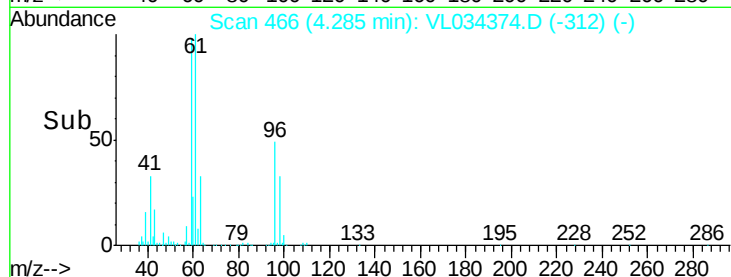
600000

400000

200000

0

Time--> 4.20 4.25 4.30 4.35



#18

1,1-Dichloroethene

Concen: 10.131 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

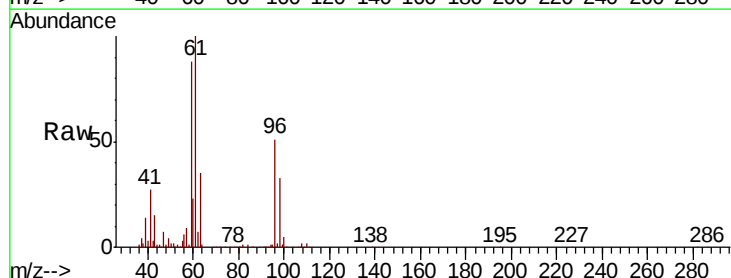
Tgt Ion: 96 Resp: 506527

Ion Ratio Lower Upper

96 100

61 194.5 164.5 246.7

98 64.5 51.7 77.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.28

800000

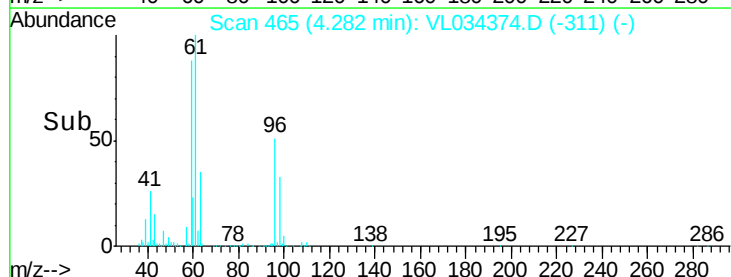
600000

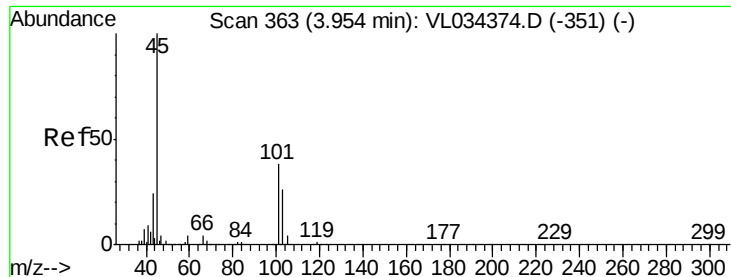
400000

200000

0

Time--> 4.20 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 11.512 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 978176

Ion Ratio Lower Upper

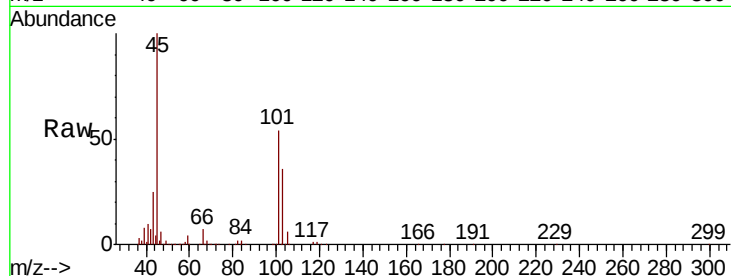
45 100

58 1.6 1.4 2.2

Manual Integrations
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

600000

500000

400000

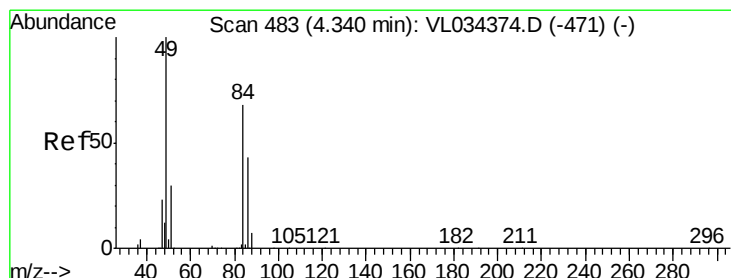
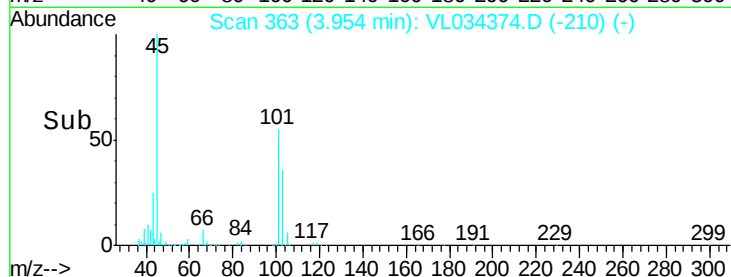
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.184 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Tgt Ion: 84 Resp: 450618

Ion Ratio Lower Upper

84 100

49 146.0 118.5 177.7

51 44.5 38.8 58.2

86 63.4 51.7 77.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

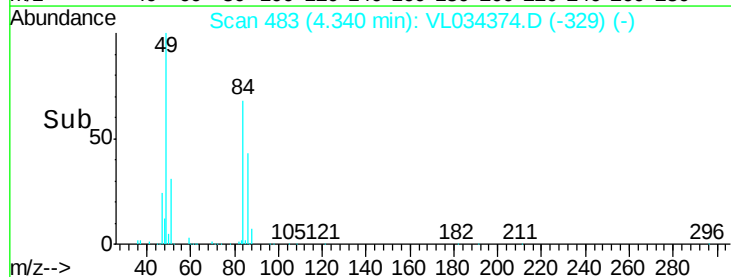
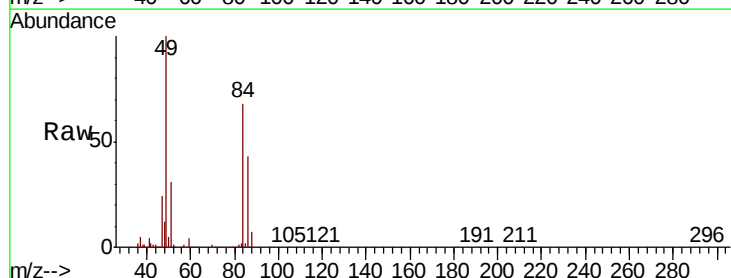
600000

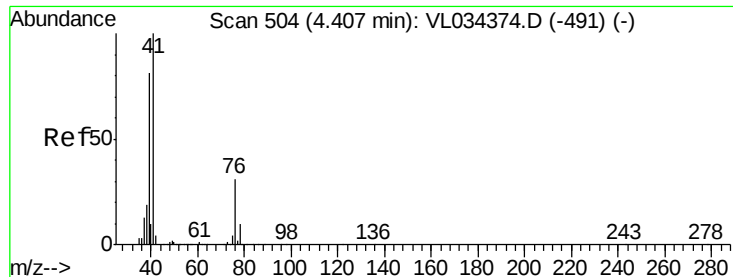
400000

200000

0

Time-->





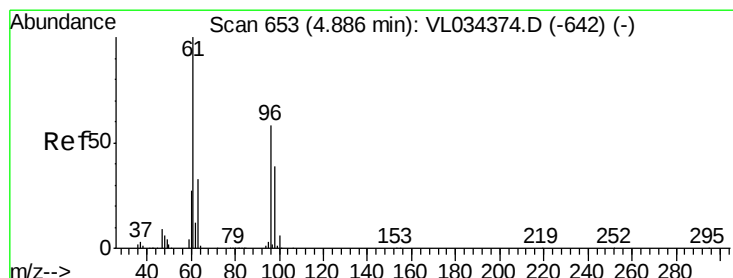
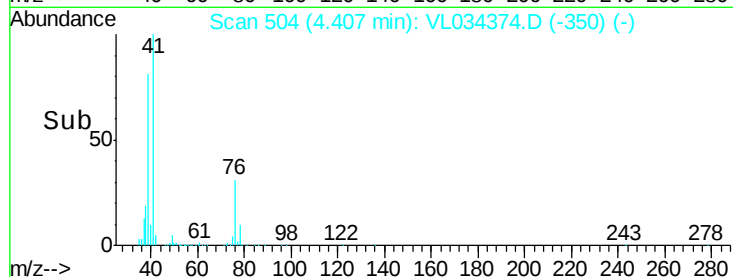
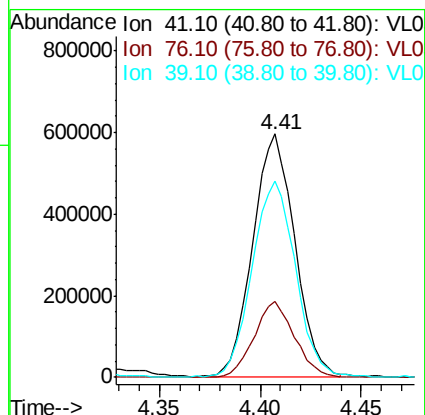
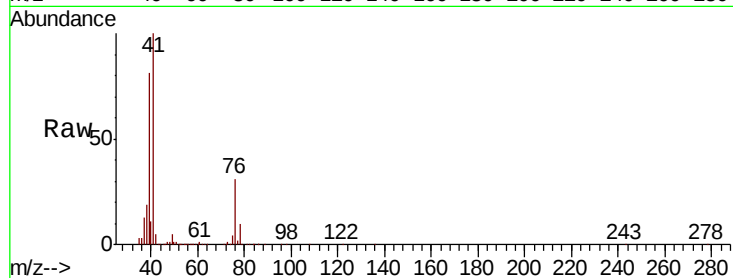
#21
Allvl Chloride
Concen: 10.278 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.2	22.8	34.2
39	83.6	66.0	99.0

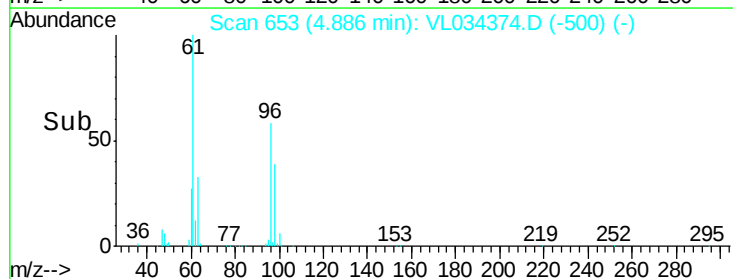
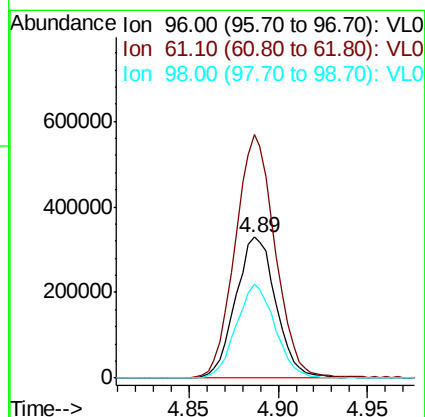
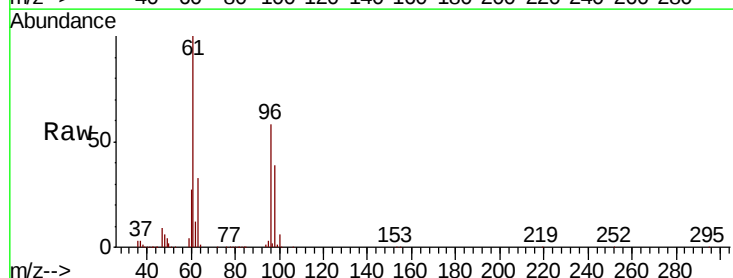
Manual Integrations
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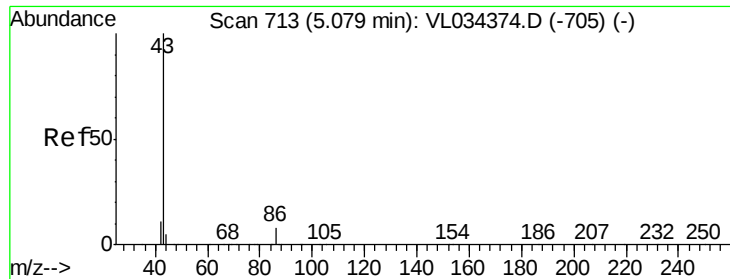
MMDadoda
11/20/2019 3:52:54 PM



#22
trans-1,2-Dichloroethene
Concen: 10.434 ppbv
RT: 4.89 min Scan# 653
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.4	133.8	200.6
98	66.9	49.4	74.0





#23

Vinyl Acetate

Concen: 9.791 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1862283

Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.0	7.4
42	11.1	8.6	13.0
44	5.0	4.8	7.2

43 100

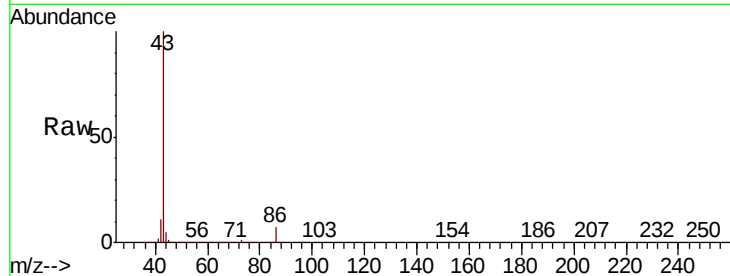
86 7.2 5.0 7.4

42 11.1 8.6 13.0

44 5.0 4.8 7.2

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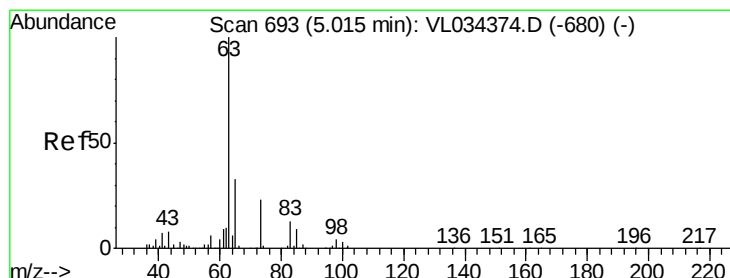
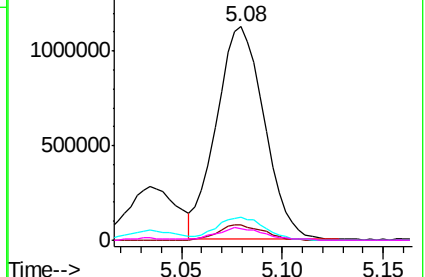
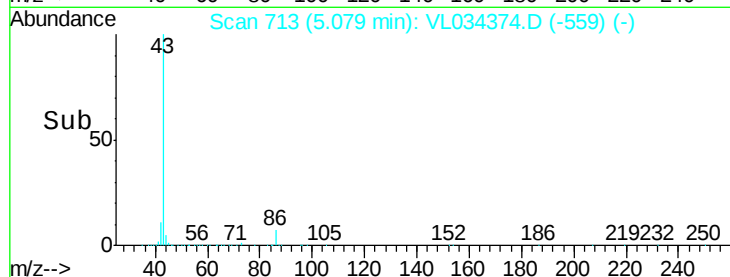
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0

Time-->



#24

1,1-Dichloroethane

Concen: 9.718 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

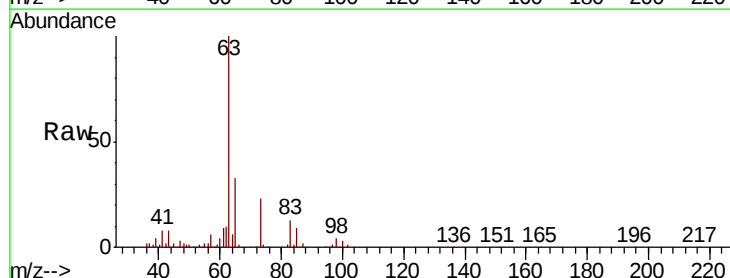
Tgt Ion: 63 Resp: 1371789

Ion	Ratio	Lower	Upper
63	100		
98	3.8	2.0	6.0
100	2.7	1.1	3.5

63 100

98 3.8 2.0 6.0

100 2.7 1.1 3.5

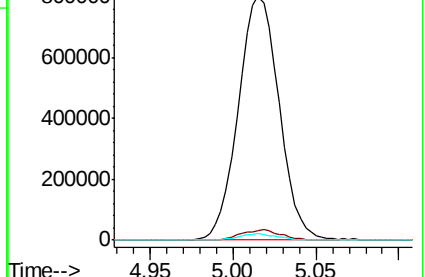
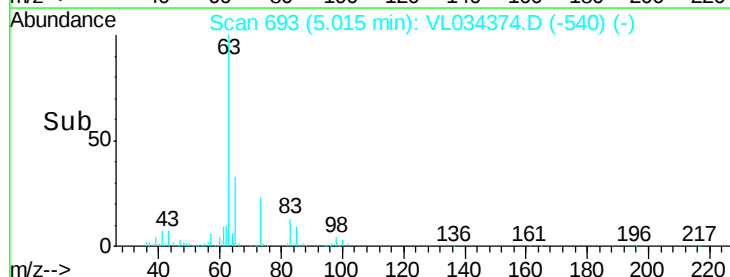


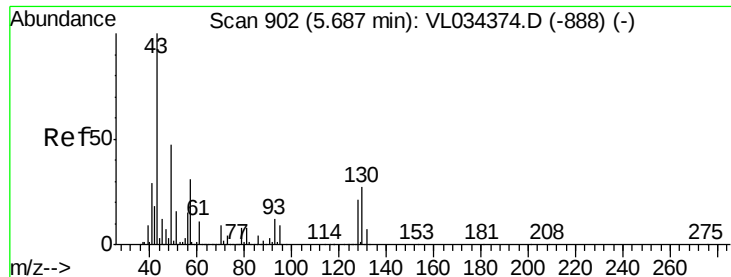
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

Time-->





#25

Ethyl Acetate

Concen: 9.412 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2420183

Ion Ratio Lower Upper

43 100

45 10.3 8.3 12.5

61 9.4 7.7 11.5

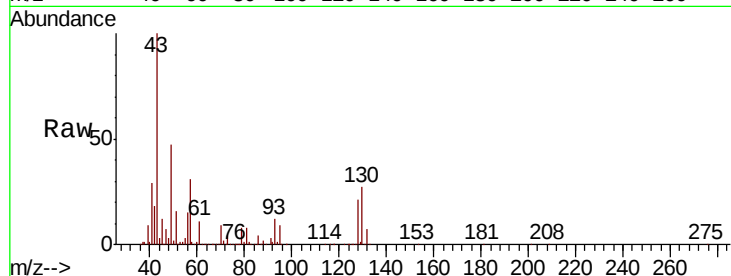
70 7.1 5.4 8.2

Manual Integrations

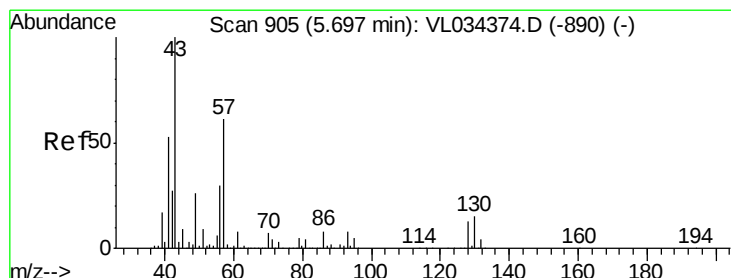
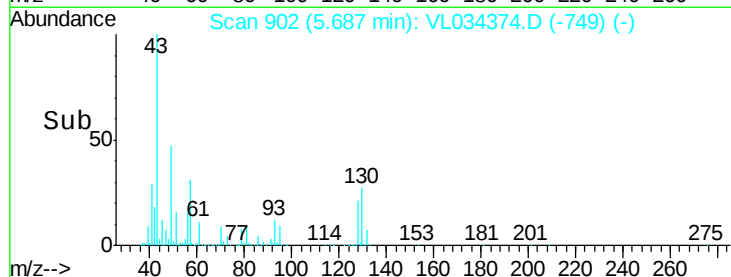
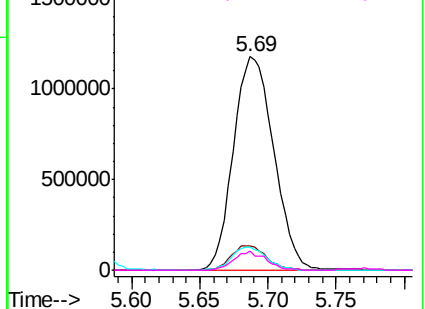
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.483 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Tgt Ion: 57 Resp: 1039382

Ion Ratio Lower Upper

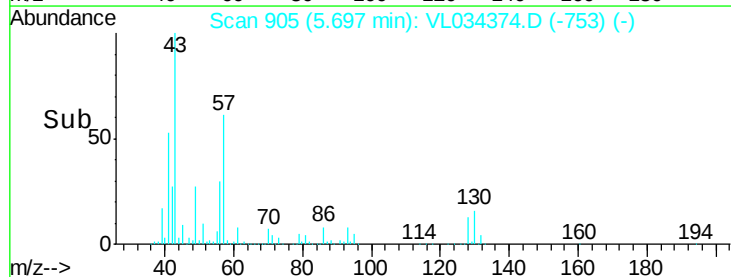
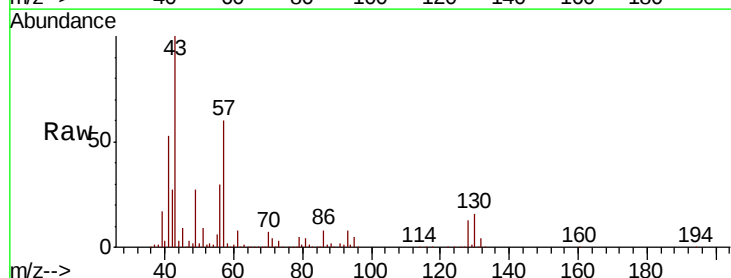
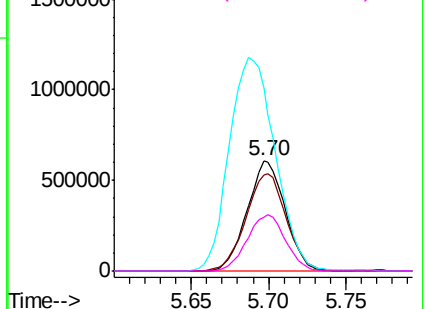
57 100

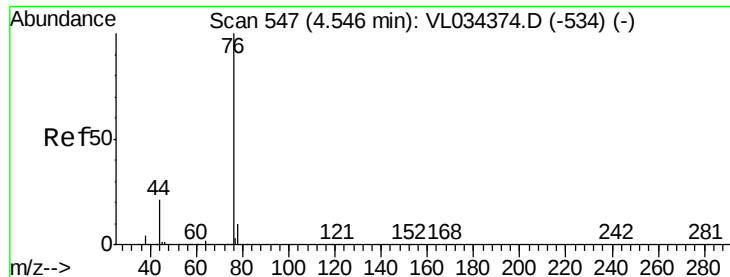
41 93.7 76.5 114.7

43 233.2 188.5 282.7

56 51.9 42.8 64.2

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.693 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1330473

Ion Ratio Lower Upper

76 100

44 21.2 17.3 25.9

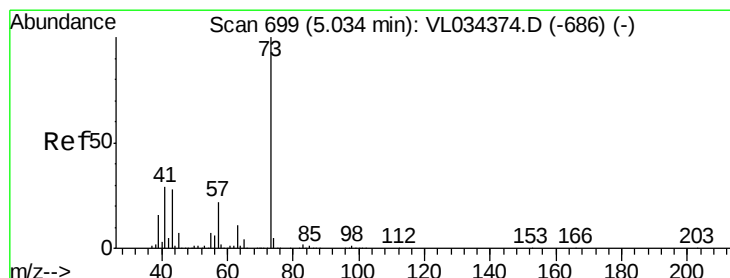
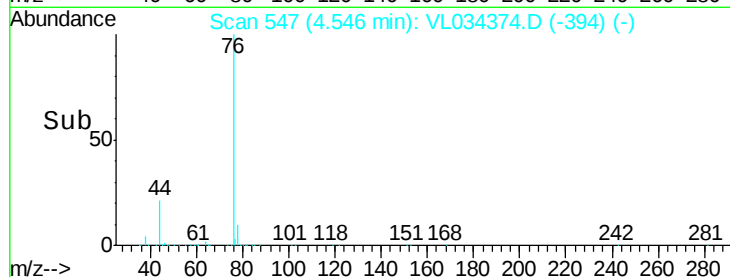
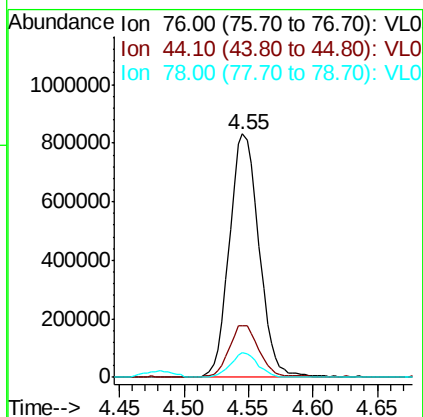
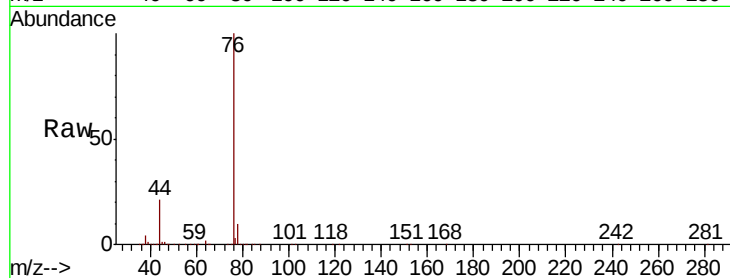
78 9.5 7.8 11.6

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 10.990 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.01 min

Lab File: VL034374.D

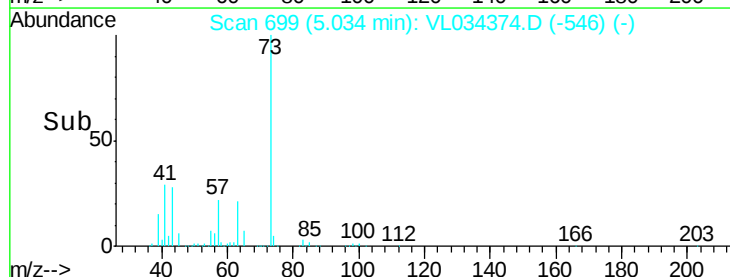
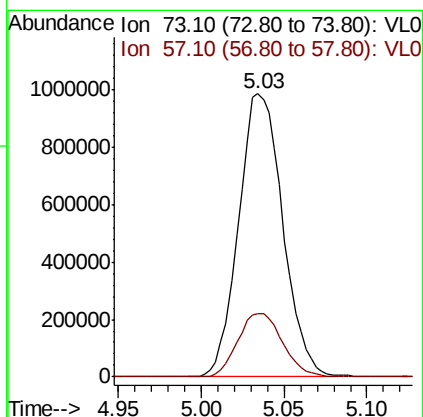
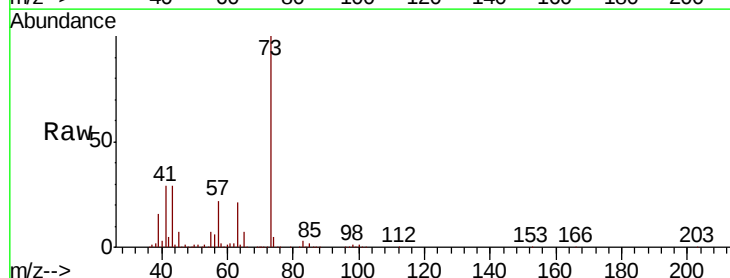
Acq: 19 Nov 2019 9:49

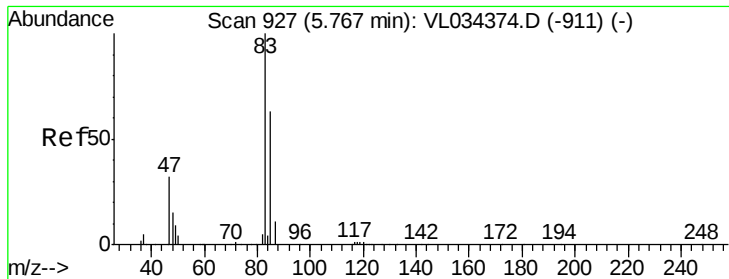
Tgt Ion: 73 Resp: 1822945

Ion Ratio Lower Upper

73 100

57 23.0 19.2 28.8





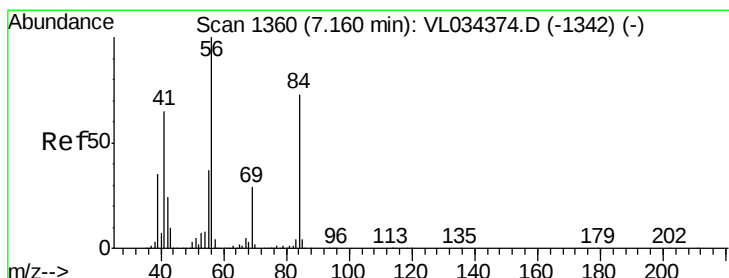
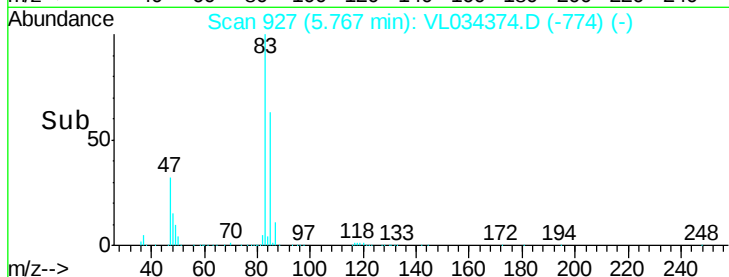
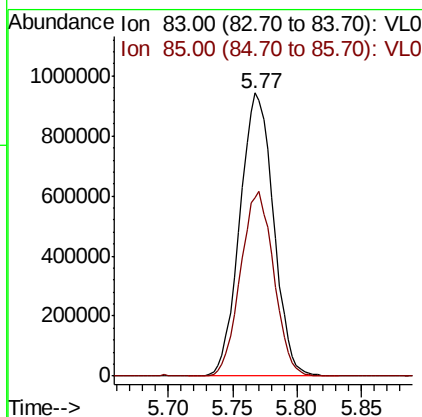
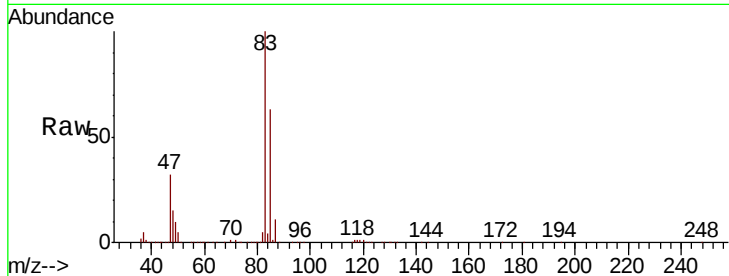
#29
Chloroform
Concen: 9.905 ppbv
RT: 5.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1717162
Ion Ratio Lower Upper
83 100
85 63.0 50.5 75.7

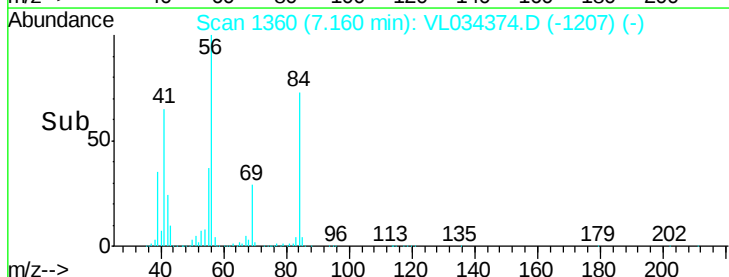
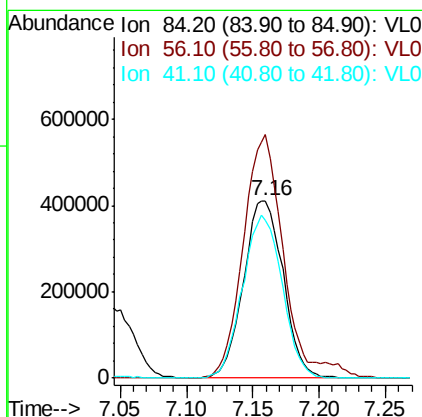
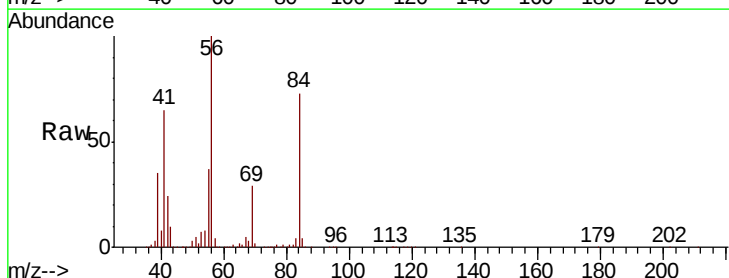
Manual Integrations
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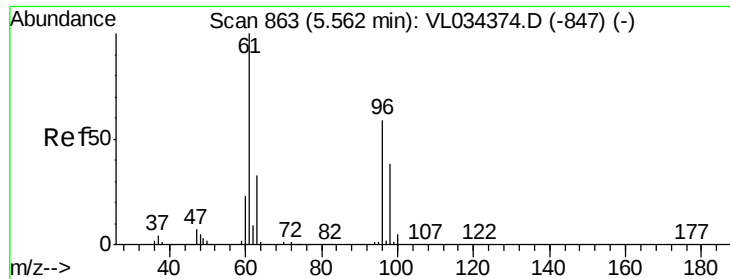
MMDadoda
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#30
Cyclohexane
Concen: 10.608 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion: 84 Resp: 855081
Ion Ratio Lower Upper
84 100
56 140.8 119.4 179.0
41 91.8 78.7 118.1





#31

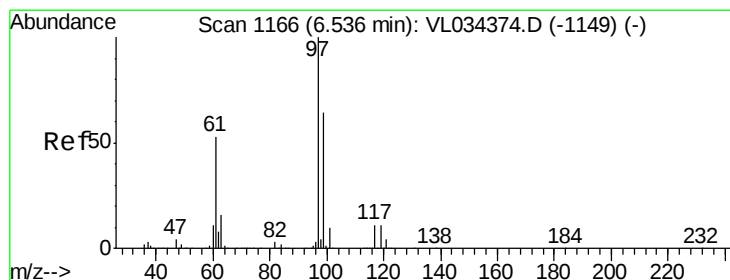
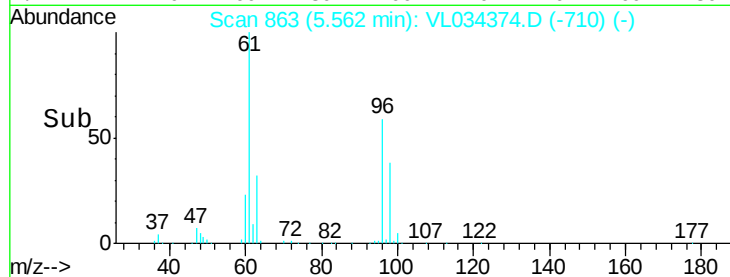
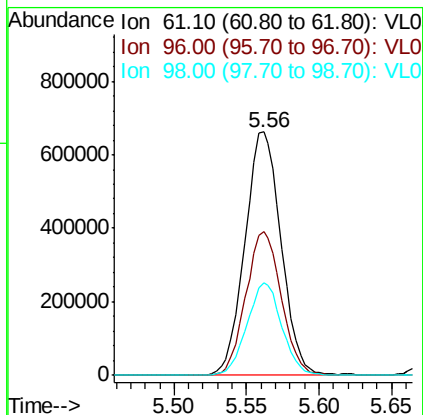
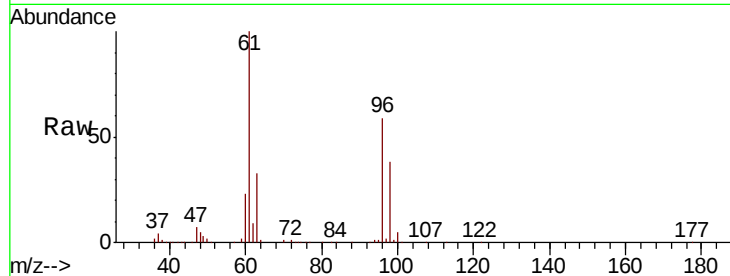
cis-1,2-Dichloroethene
Concen: 10.339 ppbv
RT: 5.56 min Scan# 863
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.3	47.5	71.3
98	38.2	28.8	43.2

Manual Integrations
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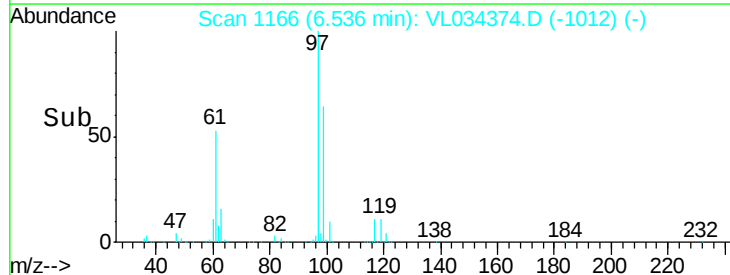
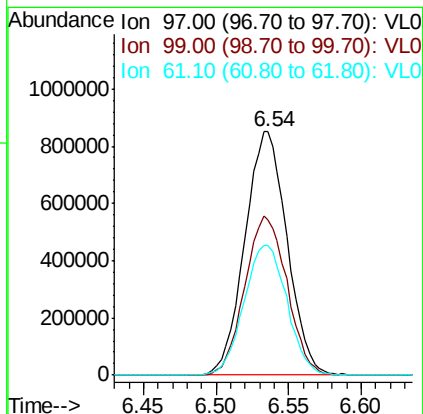
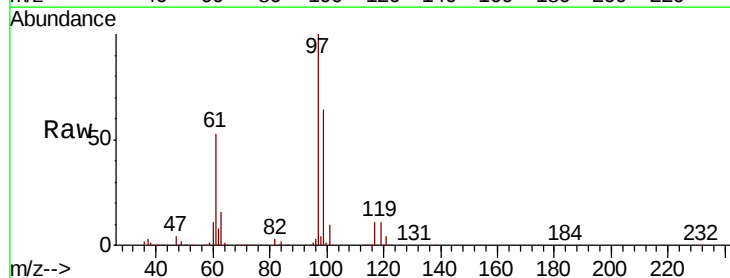
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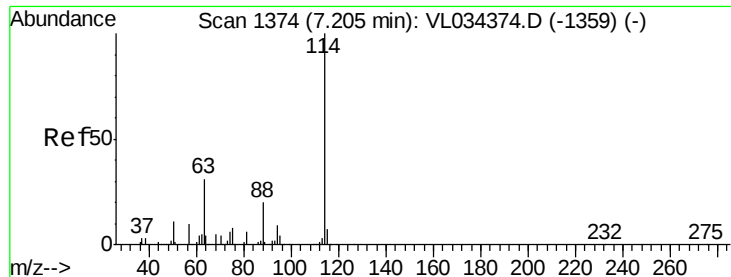


#32

1,1,1-Trichloroethane
Concen: 10.217 ppbv
RT: 6.54 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.6	78.8
61	54.6	44.5	66.7





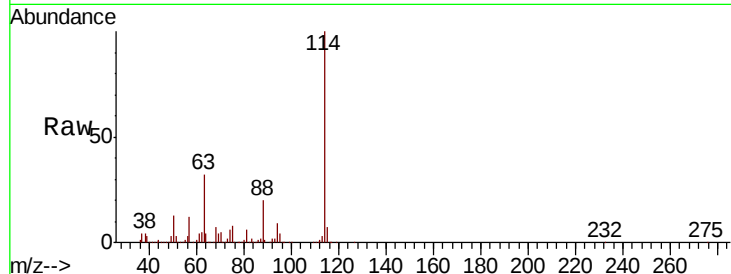
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

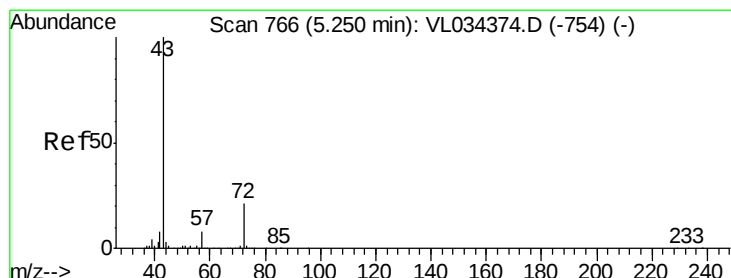
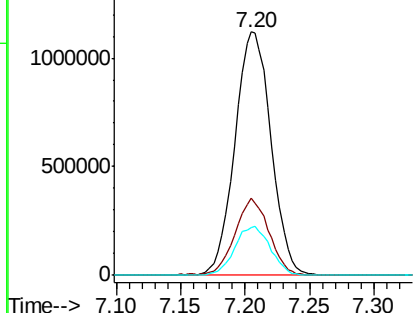
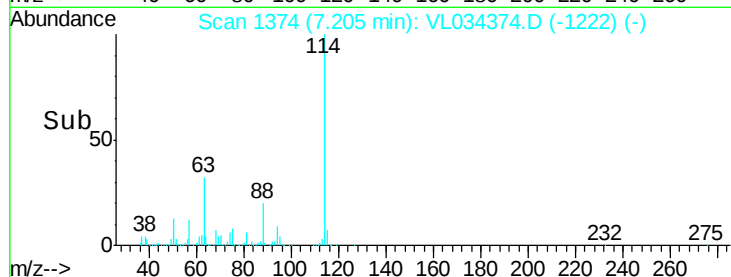
Tot Ion	Ratio	Lower	Upper
114	100		
63	30.3	25.2	37.8
88	19.9	16.0	24.0

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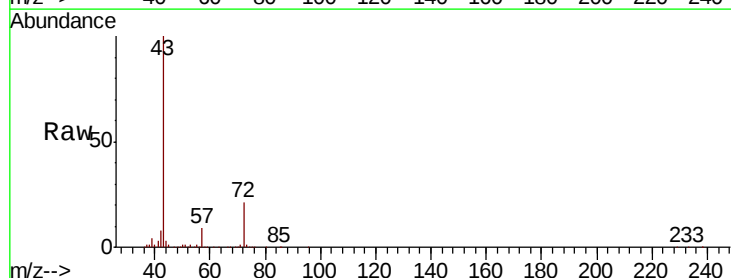


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

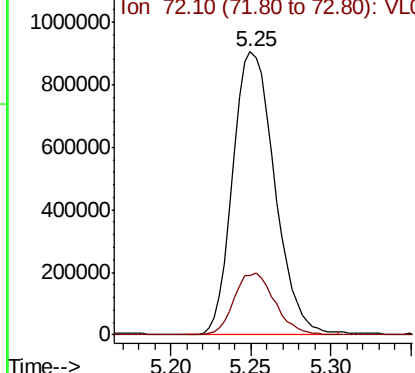
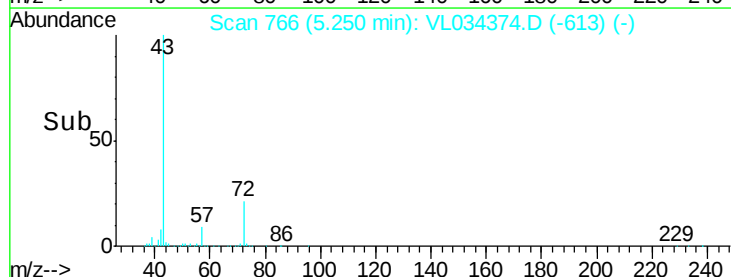


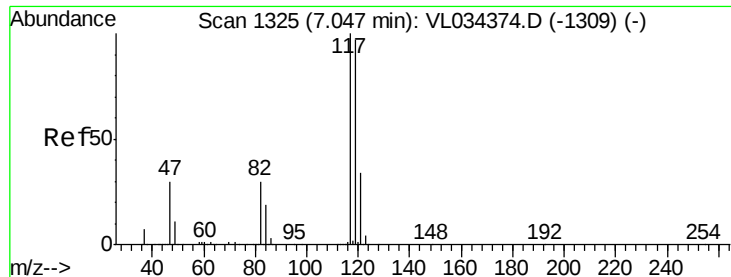
#34
 2-Butanone
 Concen: 9.051 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	16.3	24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





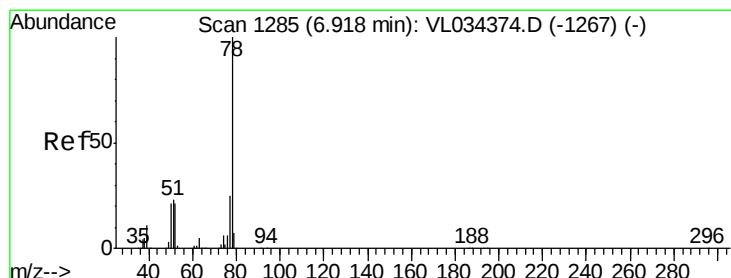
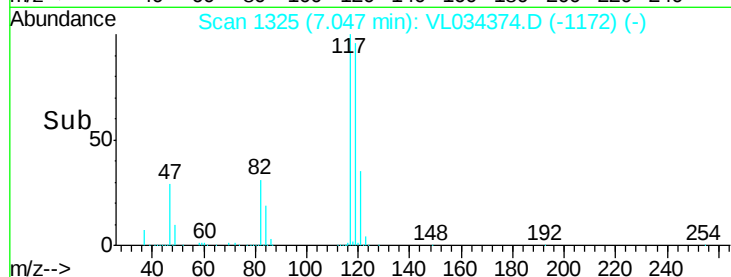
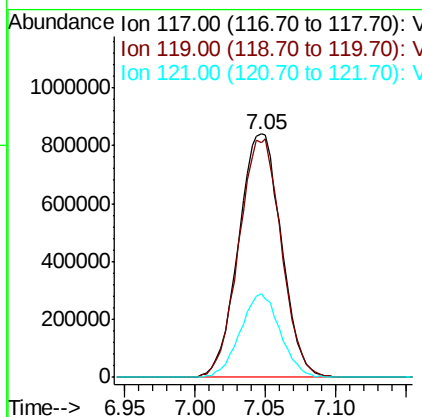
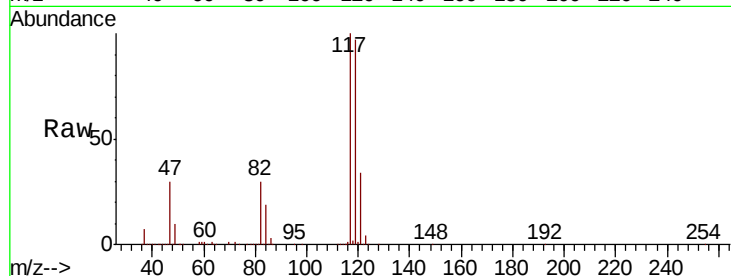
#35
Carbon Tetrachloride
Concen: 9.366 ppbv
RT: 7.05 min Scan# 1325
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.3	115.9
121	34.3	25.5	38.3

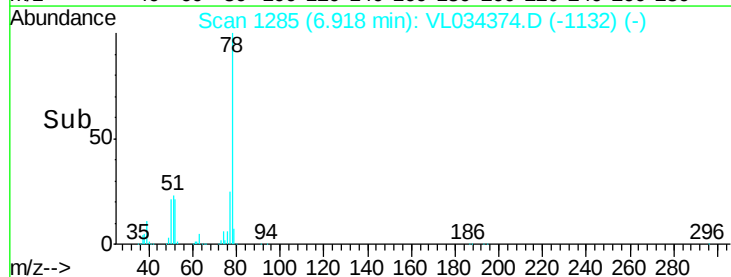
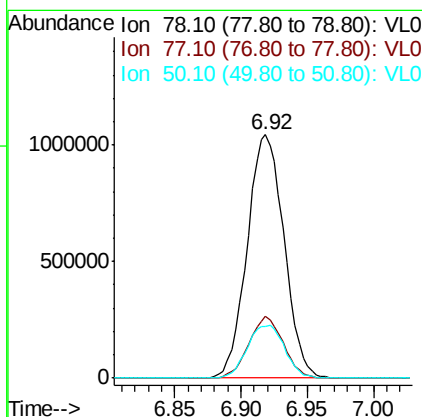
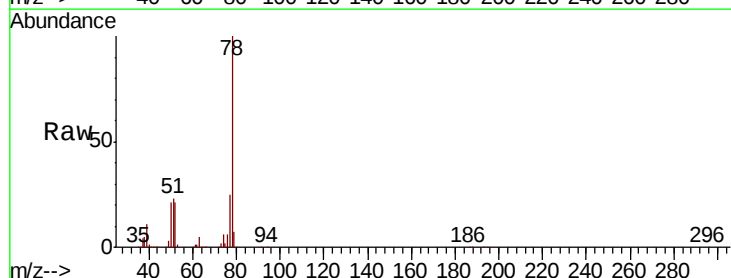
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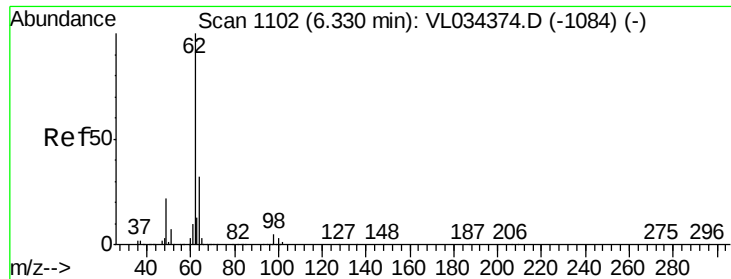
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#36
Benzene
Concen: 9.641 ppbv
RT: 6.92 min Scan# 1285
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.3	19.0	28.4
50	21.4	18.6	27.8





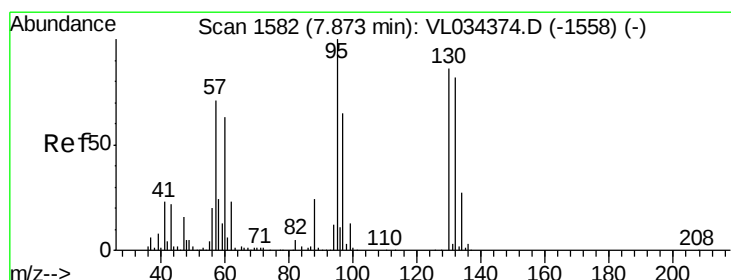
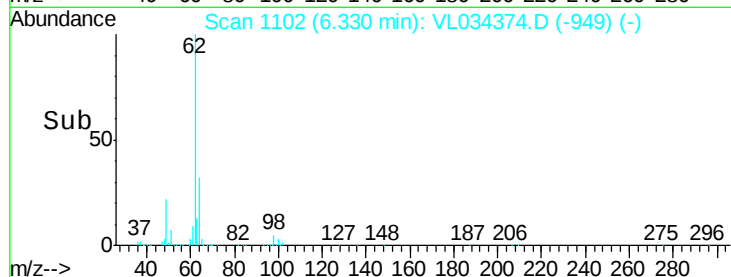
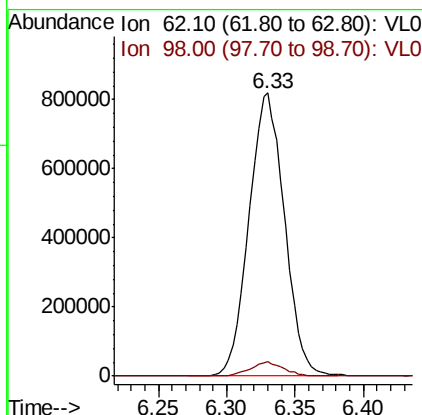
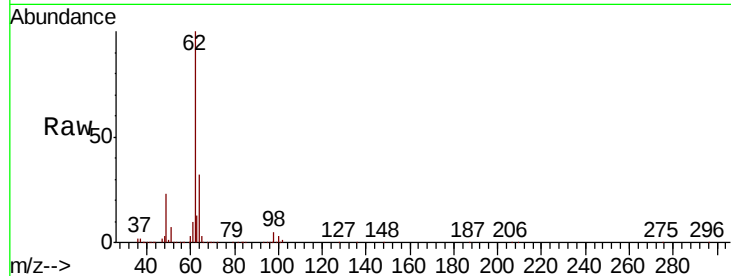
#37
 1,2-Dichloroethane
 Concen: 9.472 ppbv
 RT: 6.33 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 1477922
 Ion Ratio Lower Upper
 62 100
 98 4.8 3.8 5.6

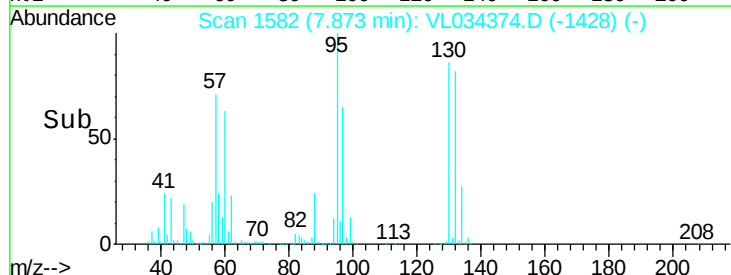
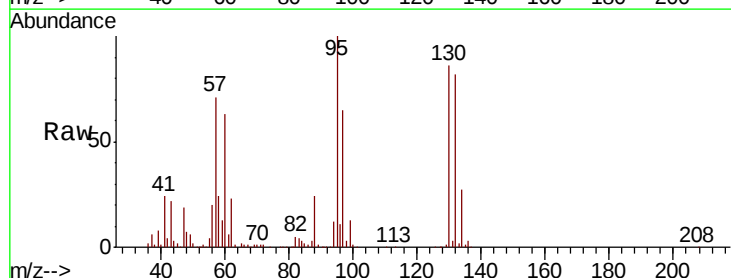
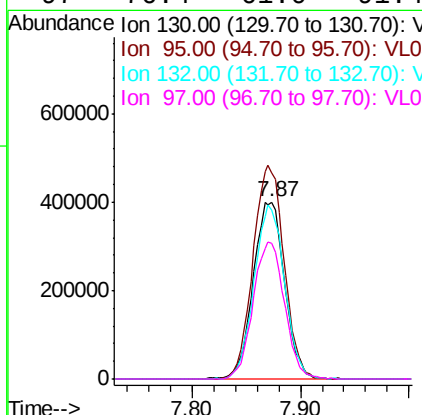
Manual Integrations
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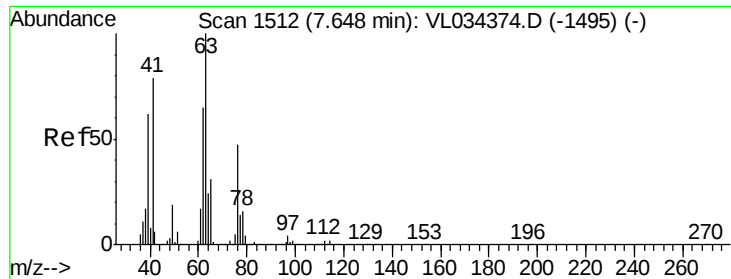
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#38
 Trichloroethene
 Concen: 9.584 ppbv m
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion: 130 Resp: 805154
 Ion Ratio Lower Upper
 130 100
 95 116.7 88.6 132.8
 132 95.5 71.2 106.8
 97 76.4 61.0 91.4





#39

1,2-Dichloropropane

Concen: 9.391 ppbv

RT: 7.65 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

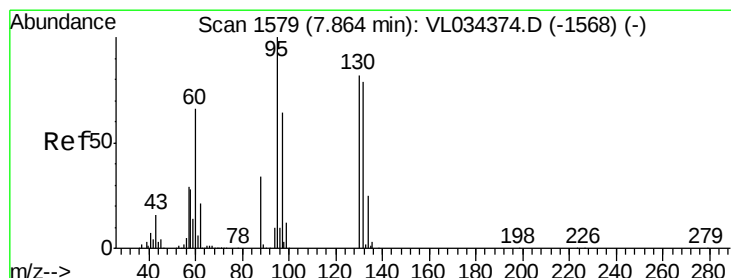
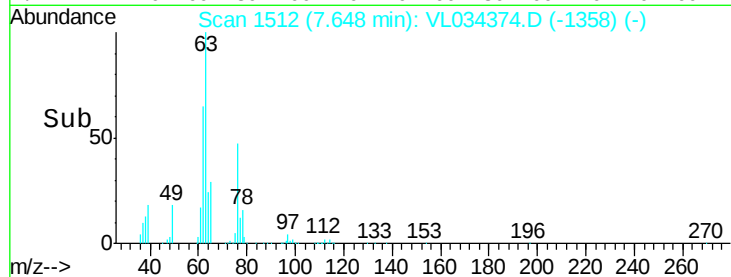
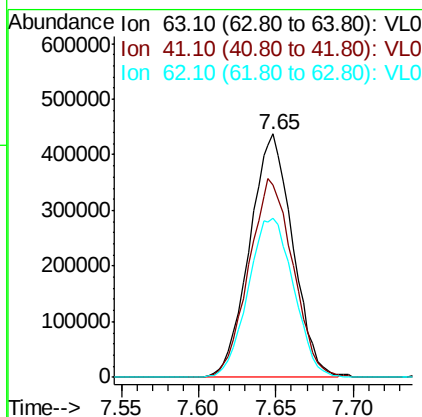
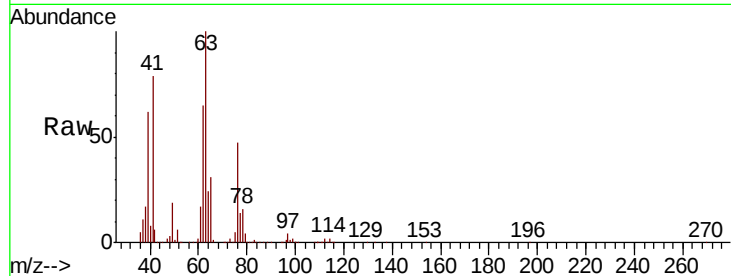
ClientSampleId :

VSTDICCC010

Tot Ion:	63	Resp:	846618
Ion Ratio	Lower	Upper	
63	100		
41	78.9	65.6	98.4
62	65.4	53.0	79.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.304 ppbv

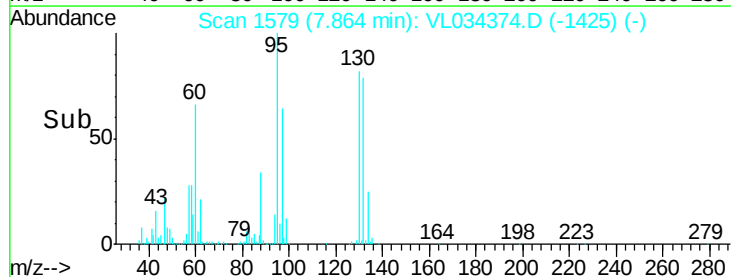
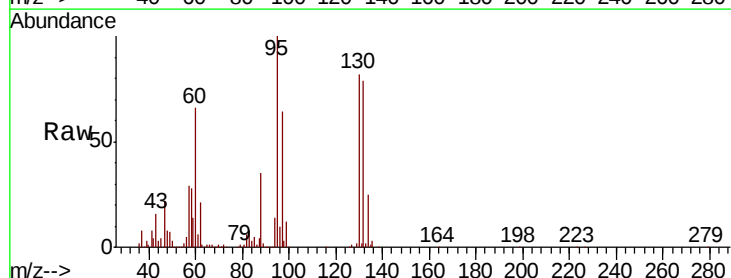
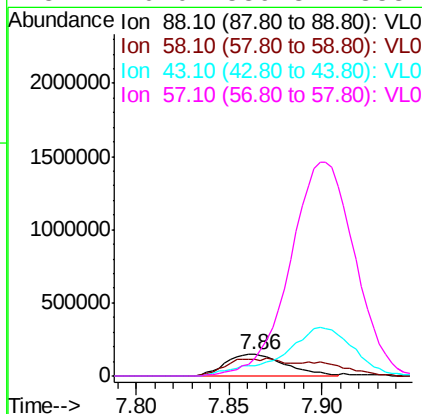
RT: 7.86 min Scan# 1579

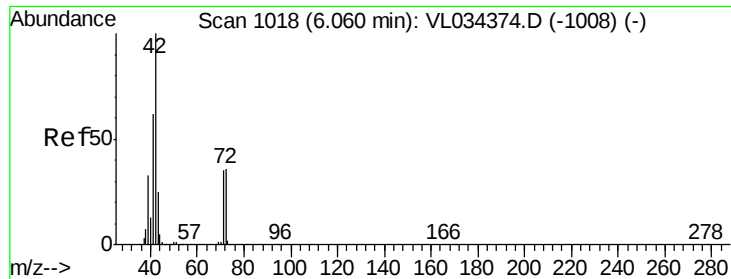
Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Tgt Ion:	88	Resp:	326448
Ion Ratio	Lower	Upper	
88	100		
58	136.9	110.3	165.5
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





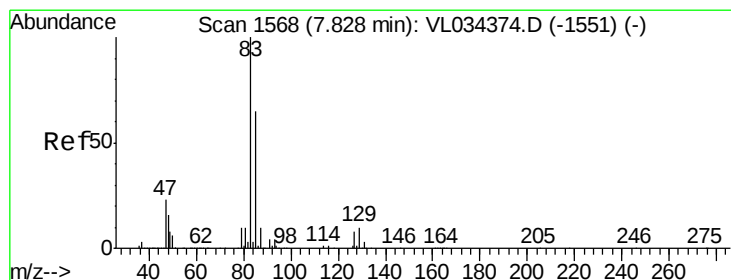
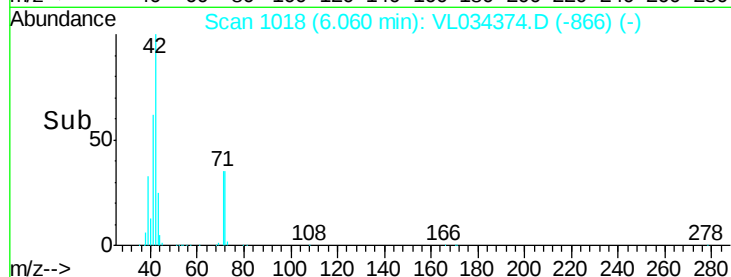
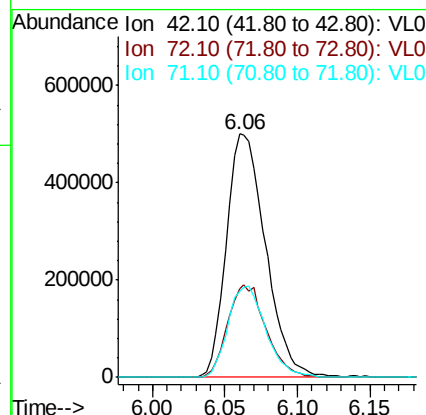
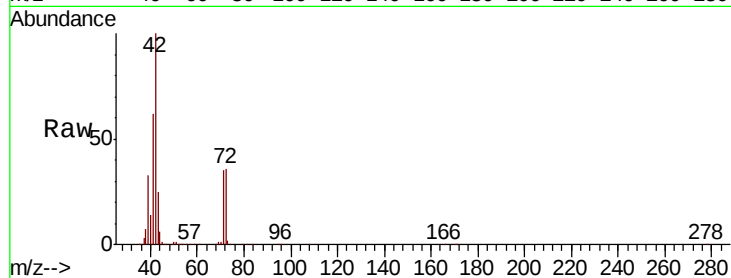
#41
Tetrahydrofuran
Concen: 9.414 ppbv
RT: 6.06 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.8	28.0	42.0
71	36.8	27.3	40.9

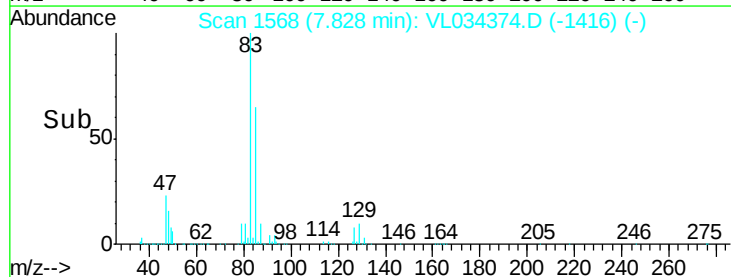
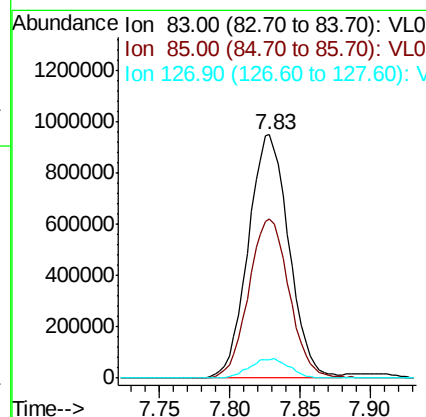
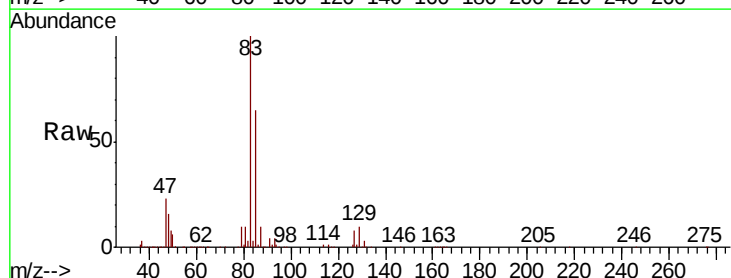
Manual Integrations
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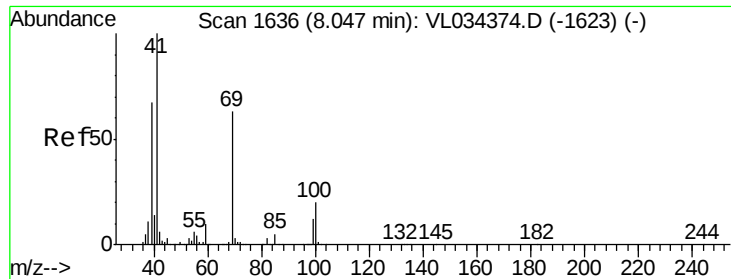
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#42
Bromodichloromethane
Concen: 10.042 ppbv
RT: 7.83 min Scan# 1568
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.8	77.6
127	7.6	7.0	10.6





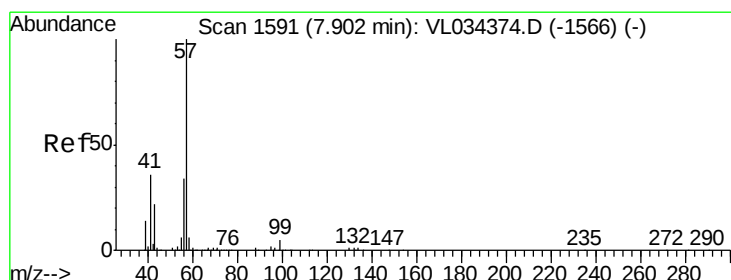
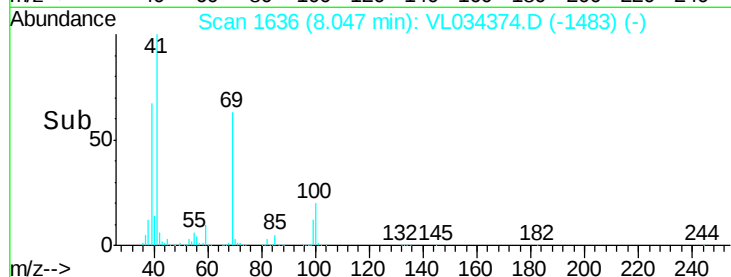
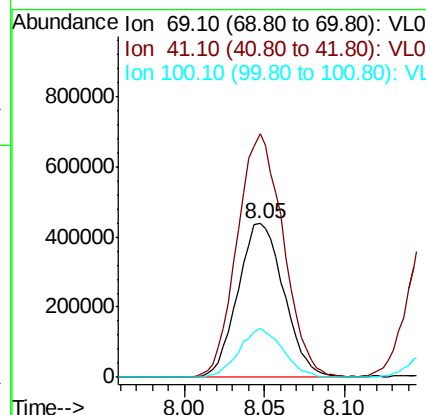
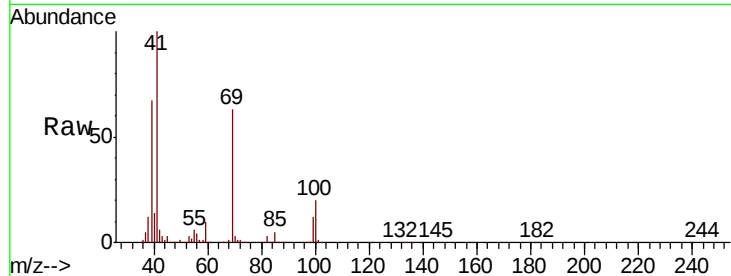
#43
Methvl Methacrilate
Concen: 9.908 ppbv
RT: 8.05 min Scan# 1636
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	159.3	132.1	198.1	
100	30.3	23.2	34.8	

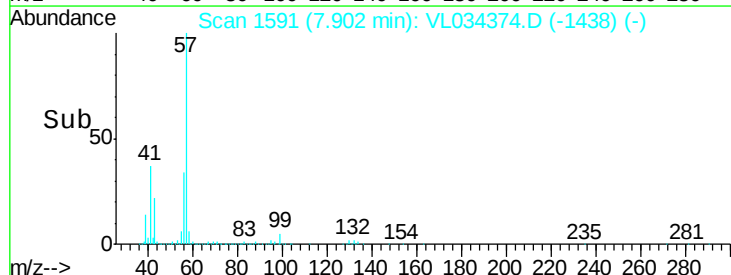
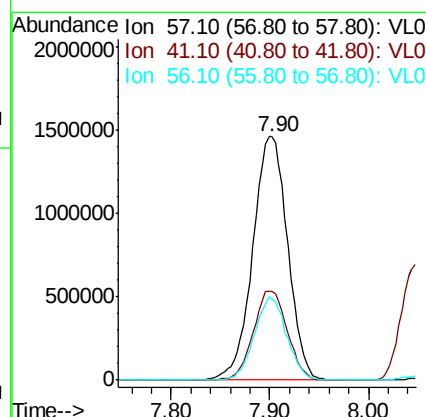
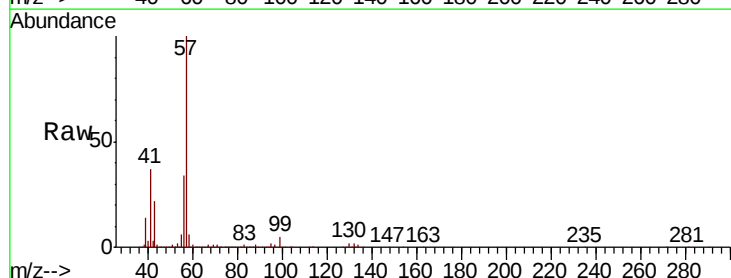
Manual Integrations
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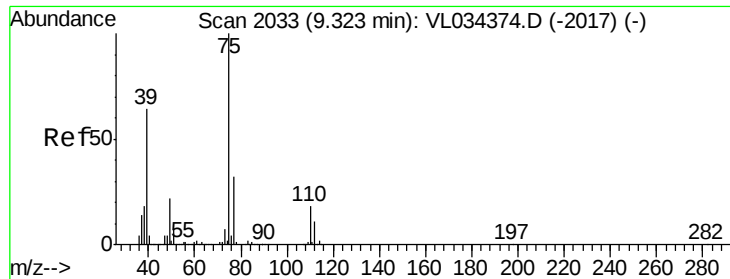
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#44
2,2,4-Trimethylpentane
Concen: 9.183 ppbv
RT: 7.90 min Scan# 1591
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.7	29.3	43.9	
56	31.6	25.3	37.9	





#45

t-1,3-Dichloropropene

Concen: 11.623 ppbv

RT: 9.32 min Scan# 2033

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 1226245

Ion Ratio Lower Upper

75 100

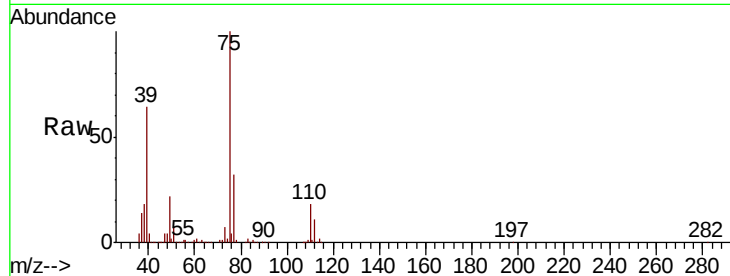
77 31.8 25.6 38.4

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.32

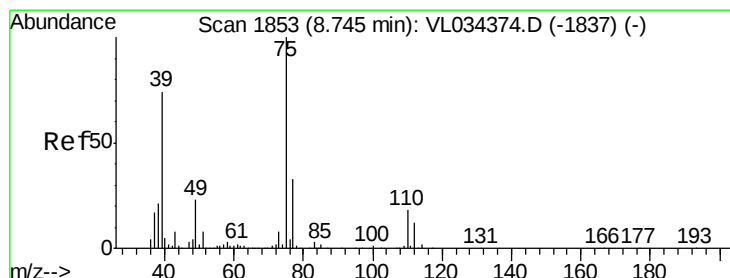
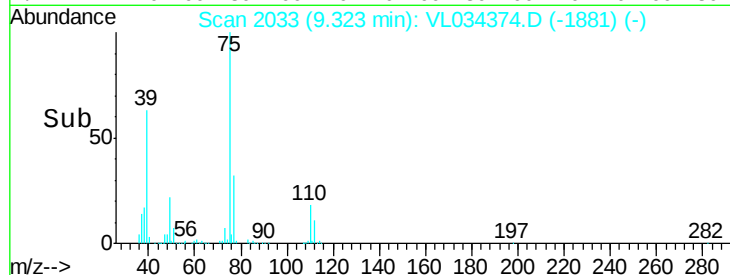
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.146 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

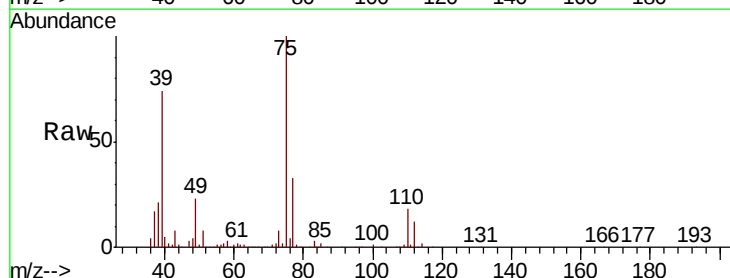
Tgt Ion: 75 Resp: 1350935

Ion Ratio Lower Upper

75 100

39 73.8 61.2 91.8

77 33.0 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.74

800000

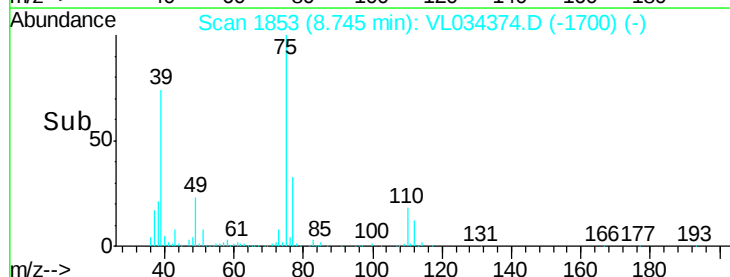
600000

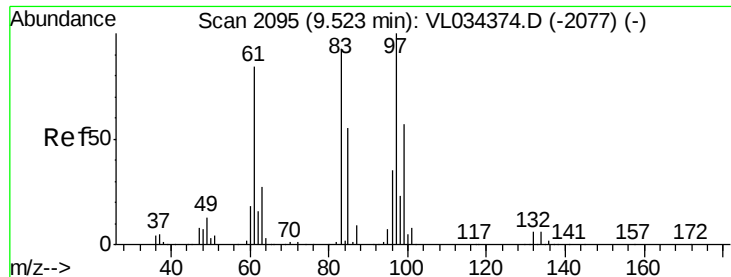
400000

200000

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Time-->





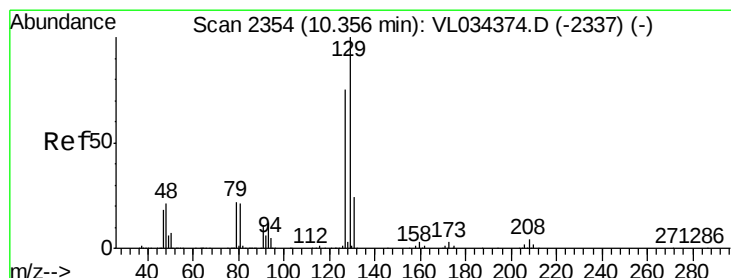
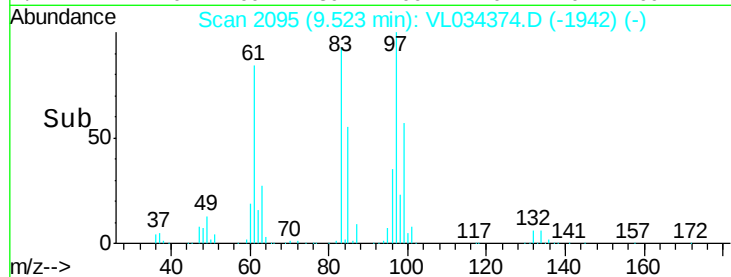
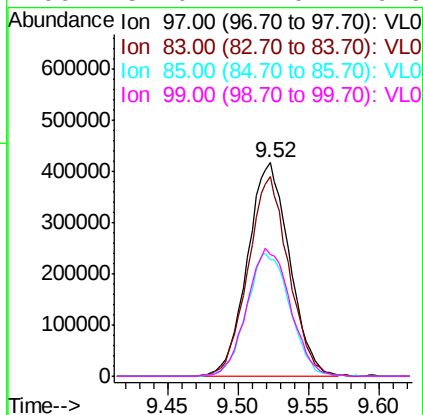
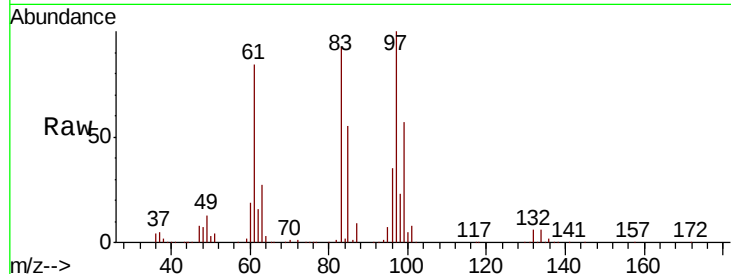
#47
 1,1,2-Trichloroethane
 Concen: 9.498 ppbv
 RT: 9.52 min Scan# 2095
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.3	74.2	111.2
85	54.8	48.6	73.0
99	57.0	47.0	70.6

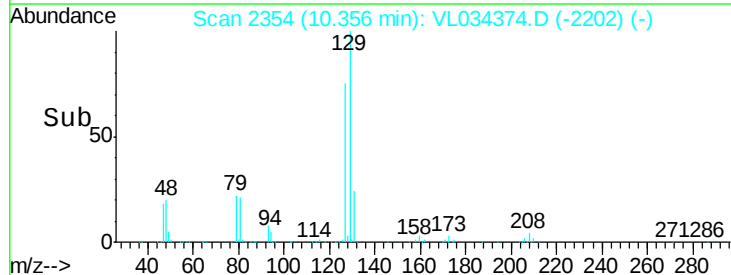
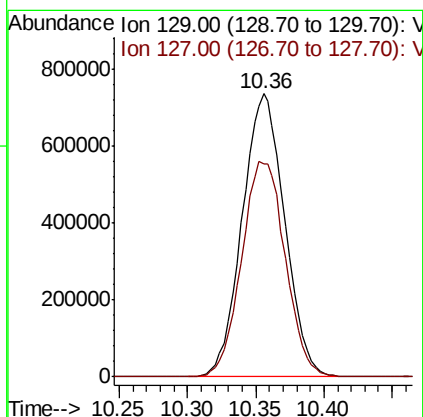
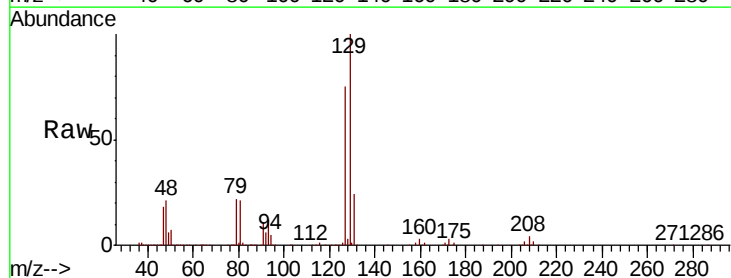
Manual Integrations
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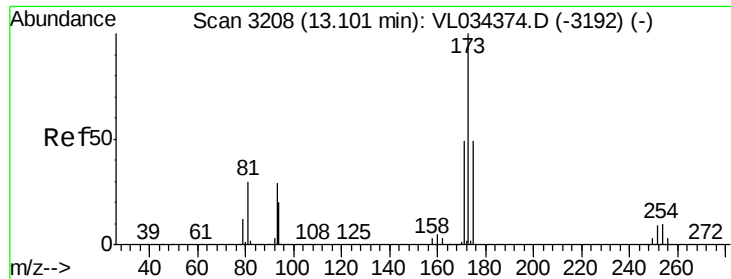
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.631 ppbv
 RT: 10.36 min Scan# 2354
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.7	119.1





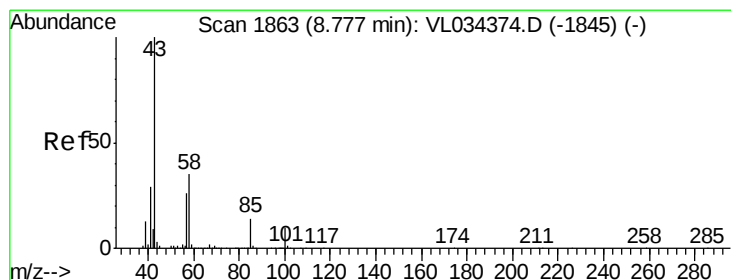
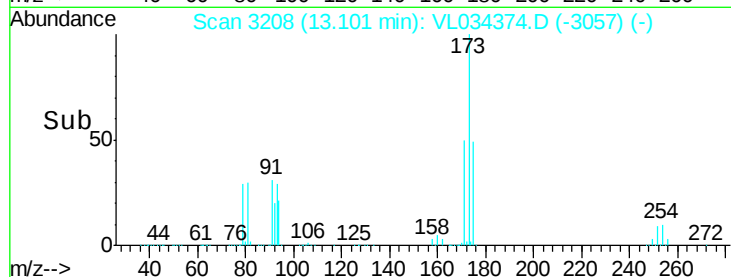
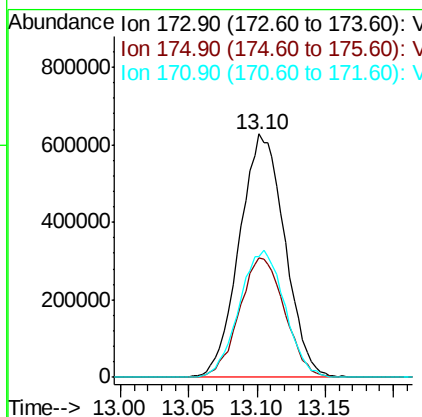
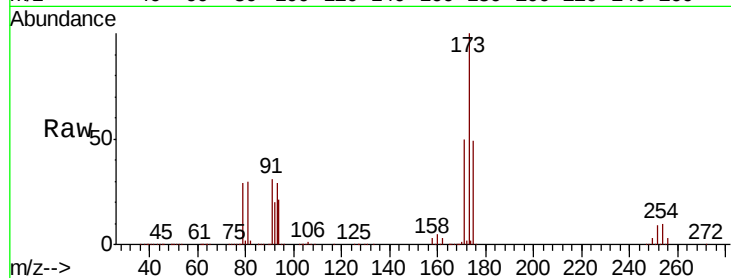
#49
Bromoform
Concen: 10.895 ppbv
RT: 13.10 min Scan# 3208
Delta R.T. -0.02 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:173 Resp: 1446067
Ion Ratio Lower Upper
173 100
175 49.1 39.8 59.6
171 53.0 41.8 62.6

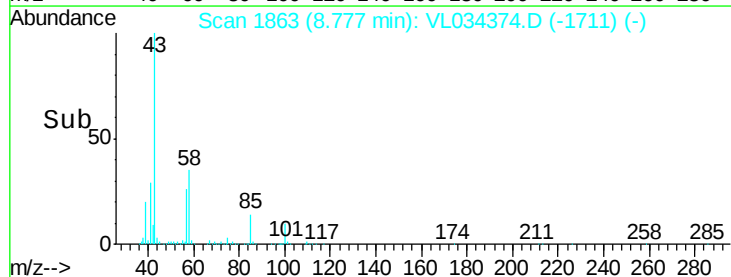
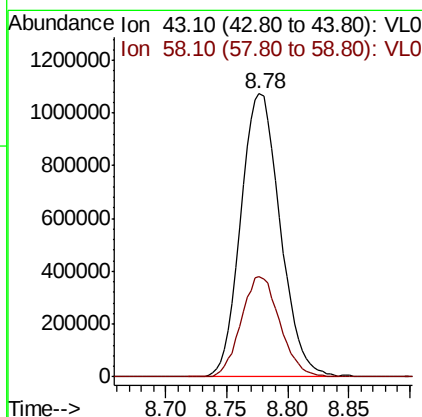
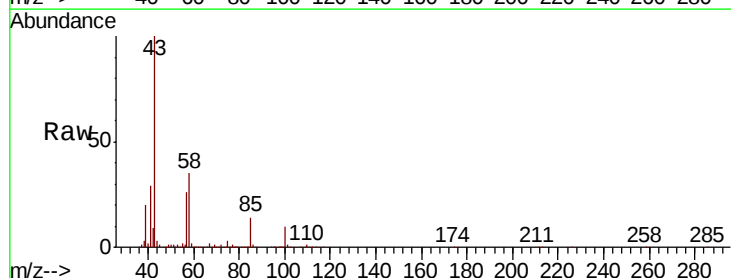
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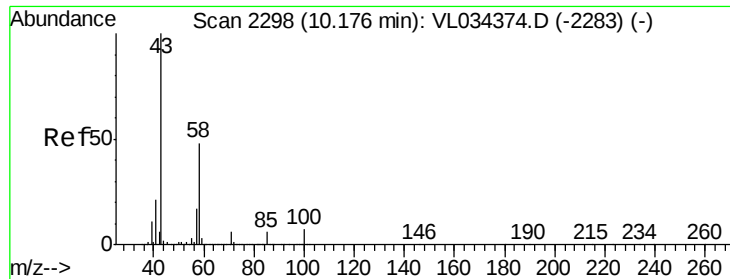
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.374 ppbv
RT: 8.78 min Scan# 1863
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion: 43 Resp: 2393452
Ion Ratio Lower Upper
43 100
58 34.9 27.6 41.4





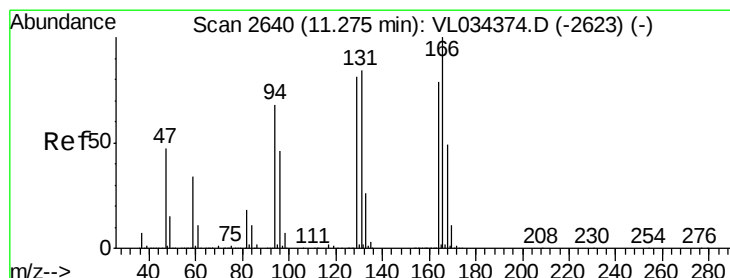
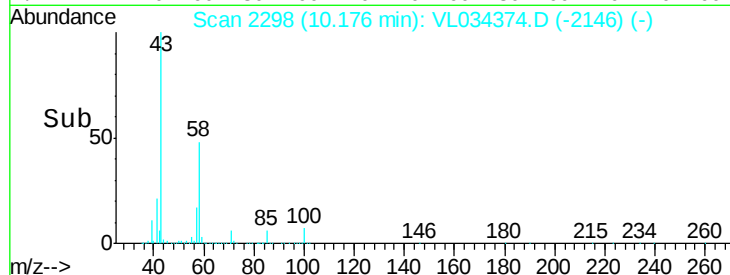
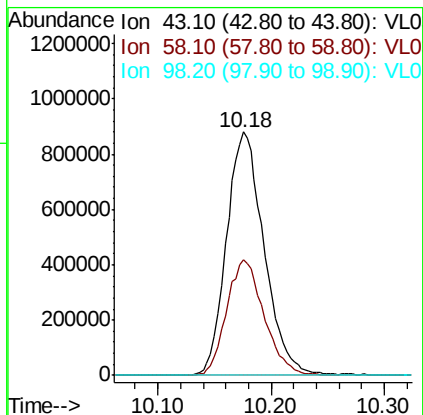
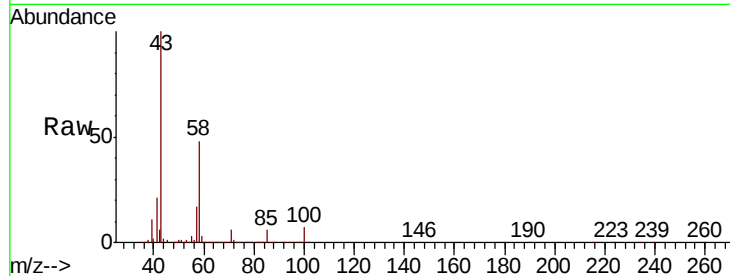
#51
2-Hexanone
Concen: 9.675 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 2025042
Ion Ratio Lower Upper
43 100
58 47.8 37.0 55.6
98 0.2 0.2 0.2

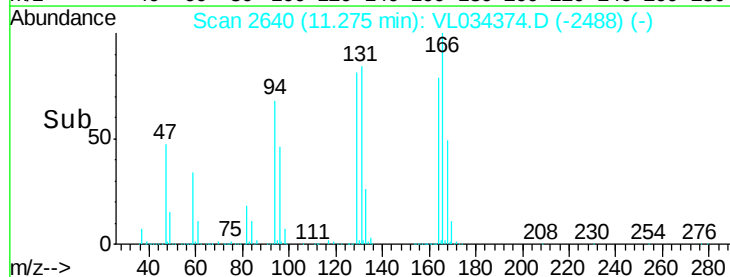
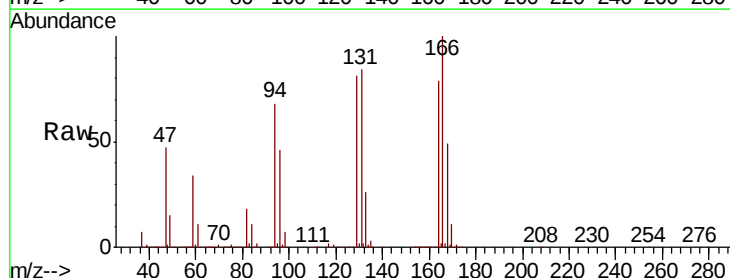
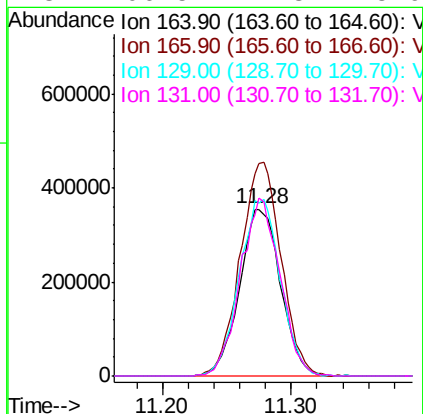
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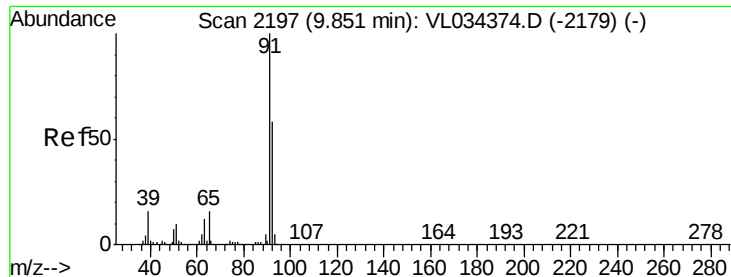
MMDadoda
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#52
Tetrachloroethene
Concen: 9.551 ppbv
RT: 11.28 min Scan# 2640
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion: 164 Resp: 783775
Ion Ratio Lower Upper
164 100
166 127.1 95.3 142.9
129 103.2 84.5 126.7
131 106.5 77.3 115.9





#53

Toluene

Concen: 10.225 ppbv

RT: 9.85 min Scan# 2197

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2362570

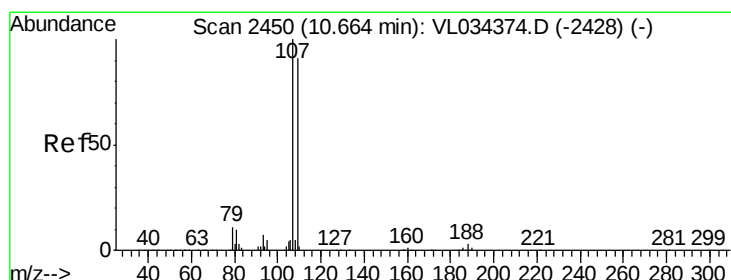
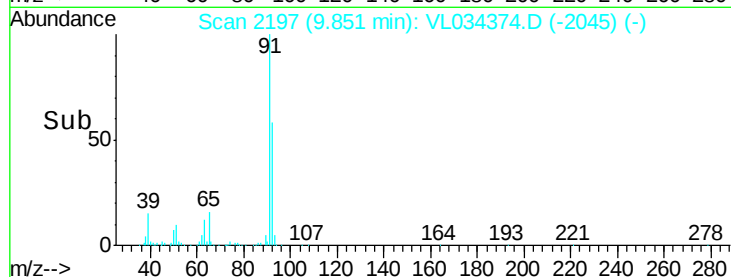
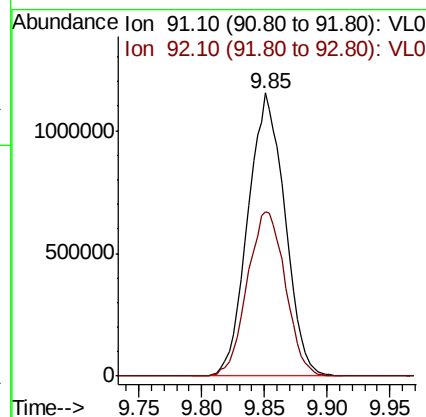
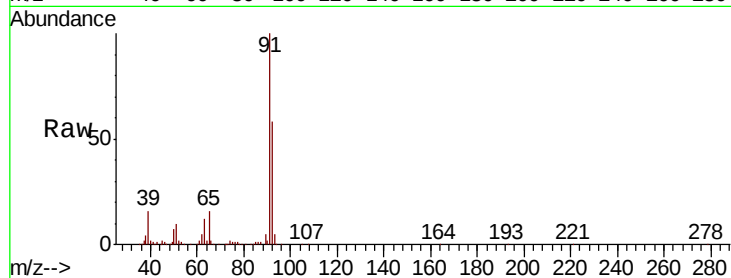
Ion Ratio Lower Upper

91 100

92 59.9 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 9.871 ppbv

RT: 10.66 min Scan# 2450

Delta R.T. -0.01 min

Lab File: VL034374.D

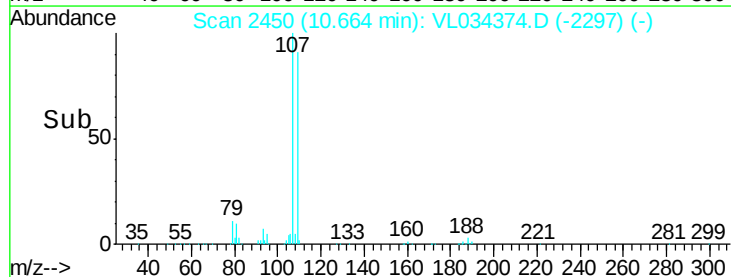
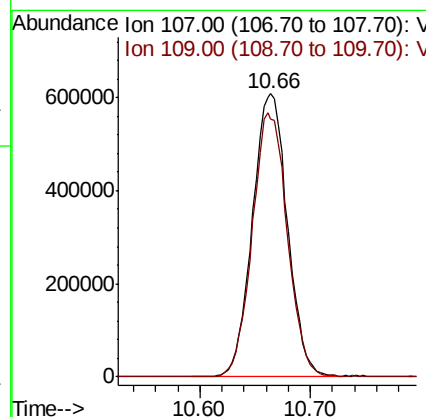
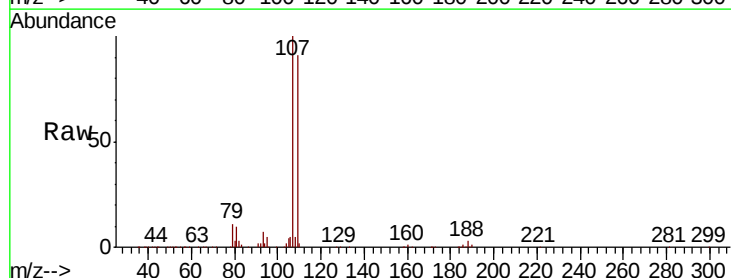
Acq: 19 Nov 2019 9:49

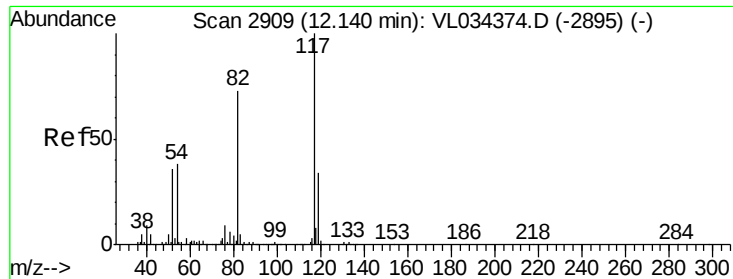
Tgt Ion: 107 Resp: 1335949

Ion Ratio Lower Upper

107 100

109 91.2 74.6 112.0





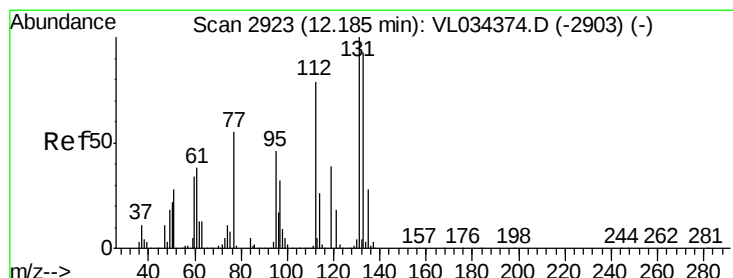
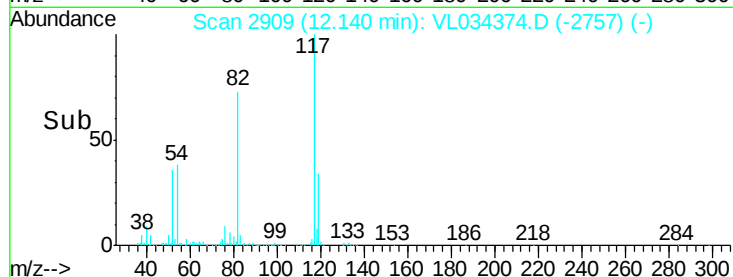
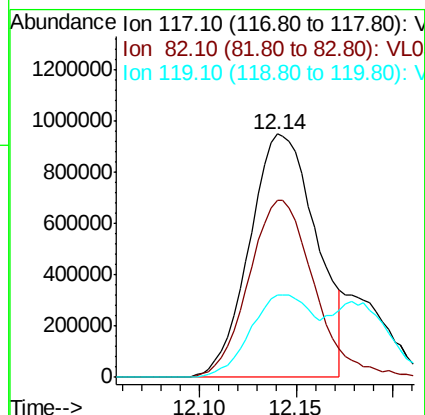
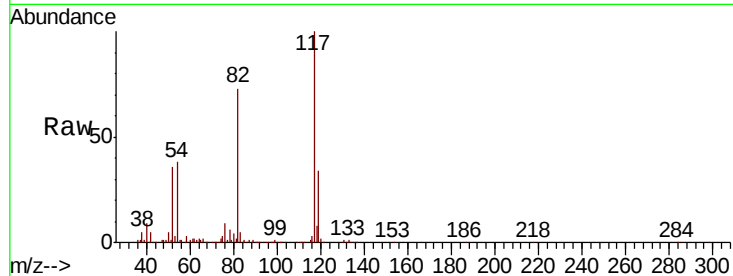
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.14 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.9	55.5	83.3
119	31.8	26.5	39.7

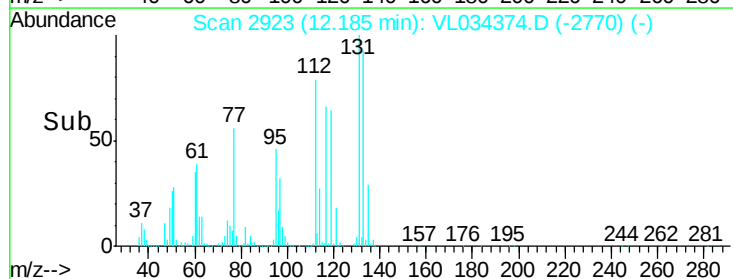
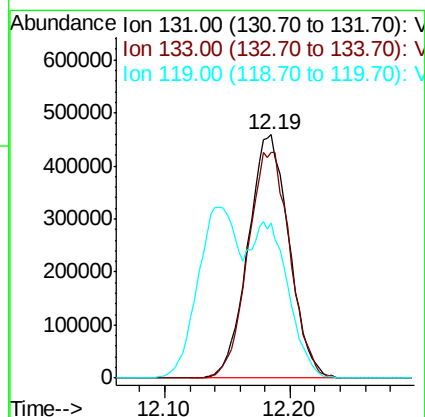
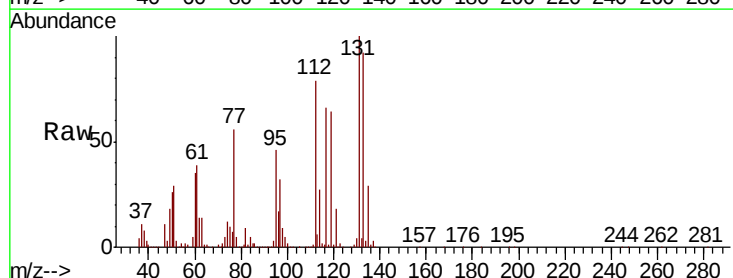
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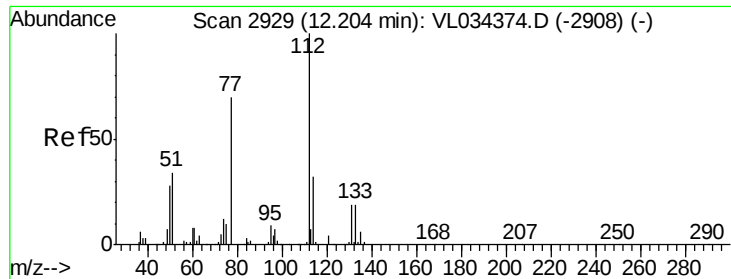
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.917 ppbv
RT: 12.19 min Scan# 2923
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.2	77.1	115.7
119	55.8	49.0	73.4





#57

Chlorobenzene

Concen: 9.459 ppbv

RT: 12.20 min Scan# 2929

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 1802786

Ion Ratio Lower Upper

112 100

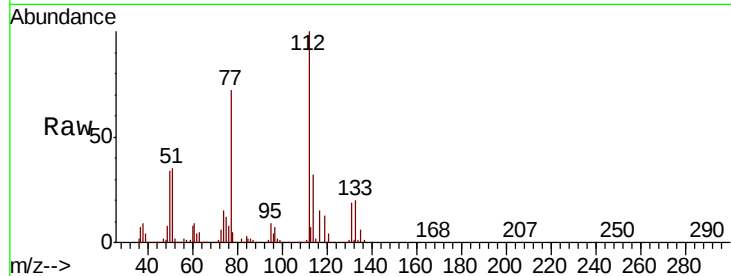
77 71.4 58.6 88.0

114 31.7 28.6 35.0

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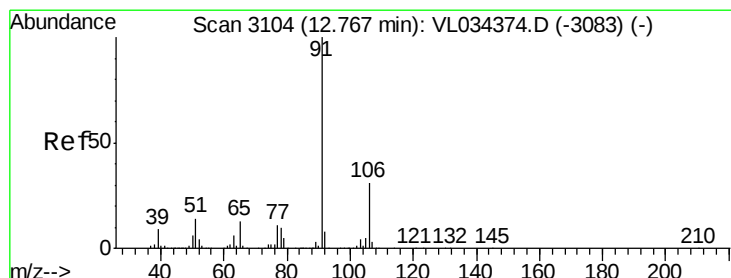
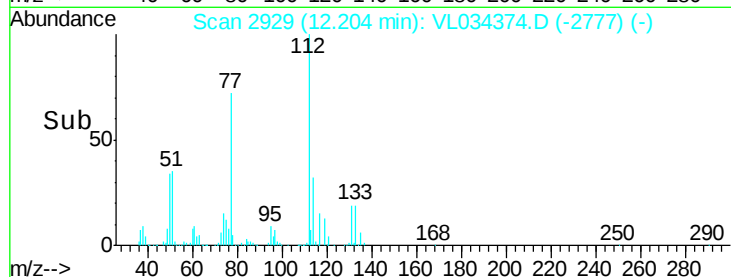
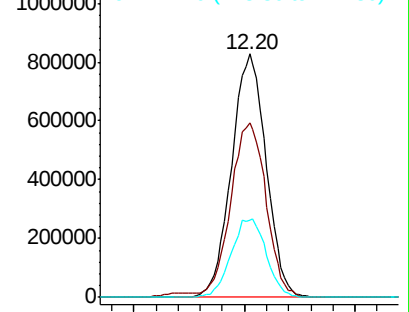
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.172 ppbv

RT: 12.77 min Scan# 3104

Delta R.T. -0.01 min

Lab File: VL034374.D

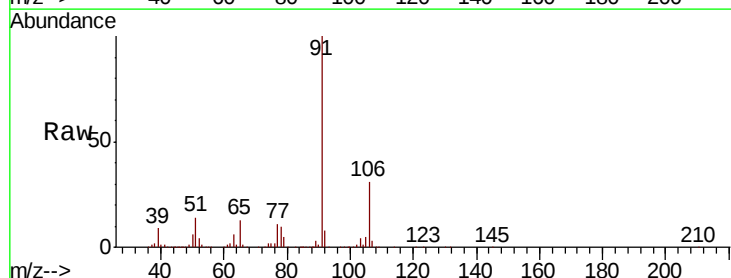
Acq: 19 Nov 2019 9:49

Tgt Ion: 91 Resp: 3248646

Ion Ratio Lower Upper

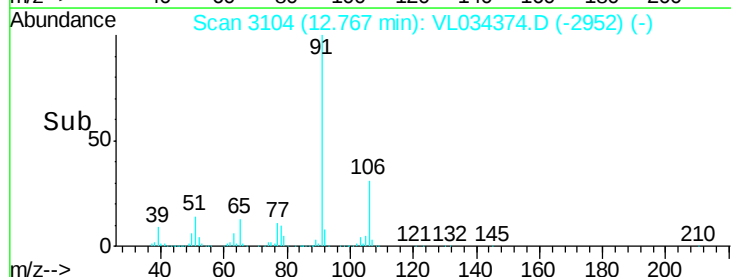
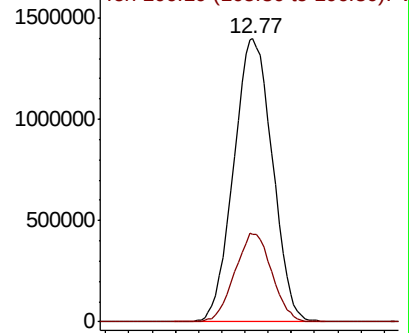
91 100

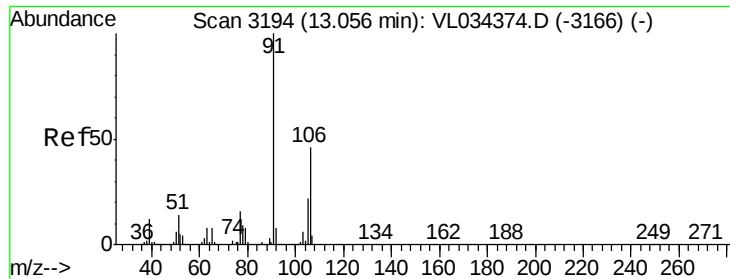
106 31.0 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





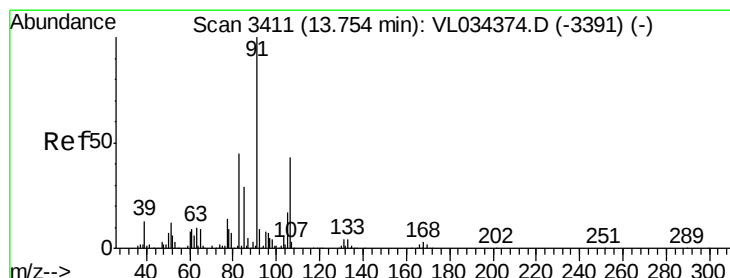
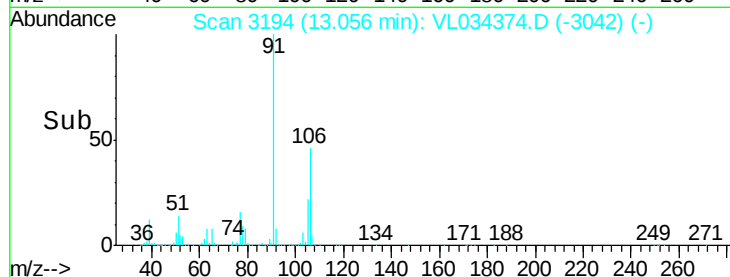
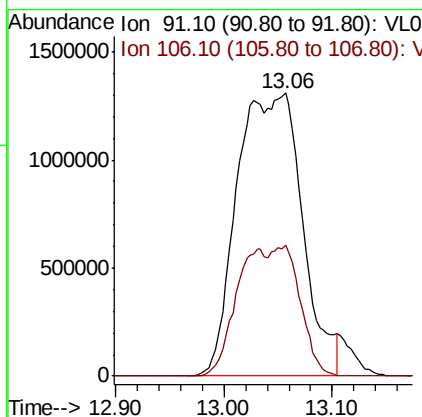
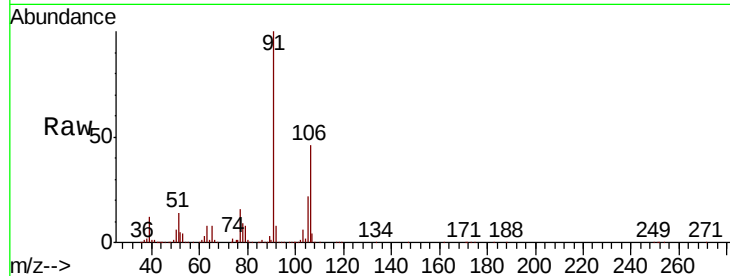
#59
m/p-Xylene
Concen: 19.813 ppbv m
RT: 13.06 min Scan# 3194
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5482492
Ion Ratio Lower Upper
91 100
106 43.2 35.4 53.2

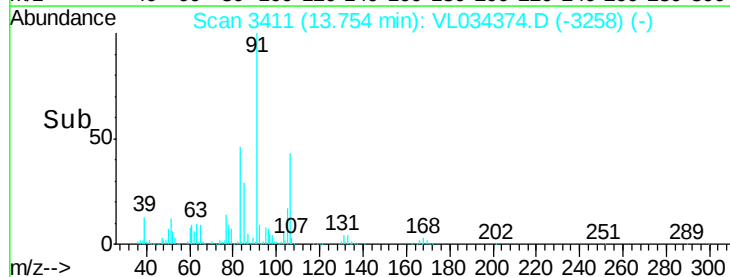
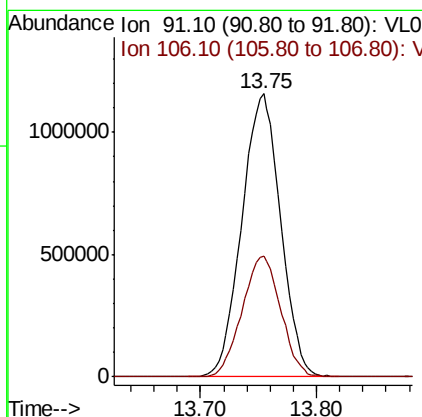
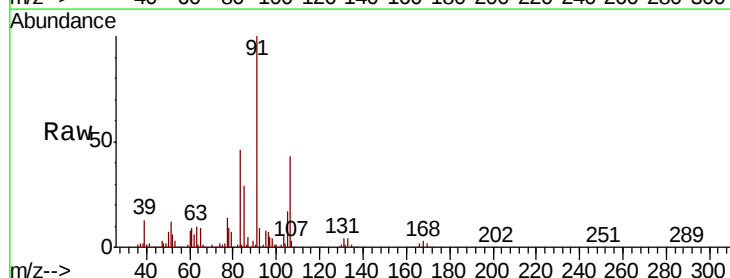
Manual Integrations
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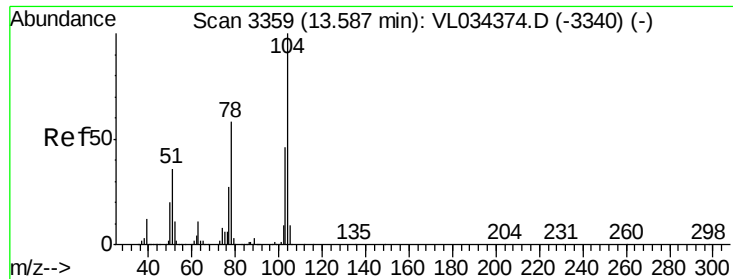
MMDadoda
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#60
o-Xylene
Concen: 9.754 ppbv
RT: 13.75 min Scan# 3411
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion: 91 Resp: 2687744
Ion Ratio Lower Upper
91 100
106 42.7 21.6 64.6





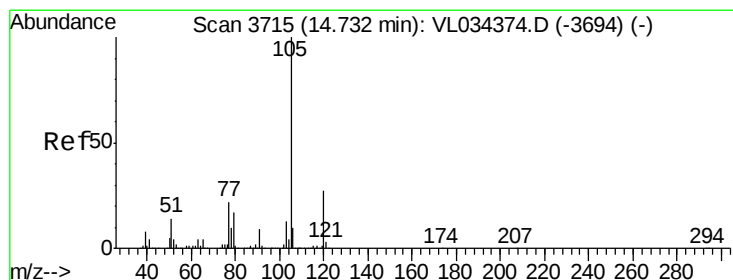
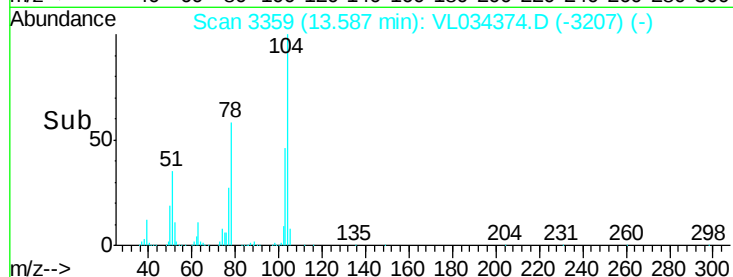
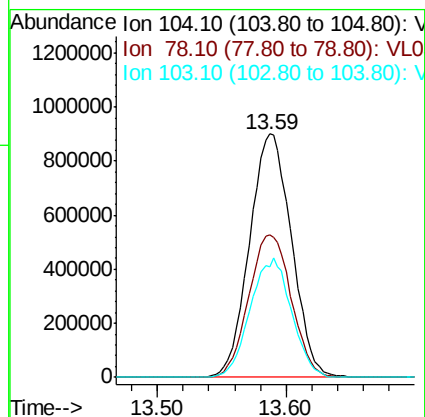
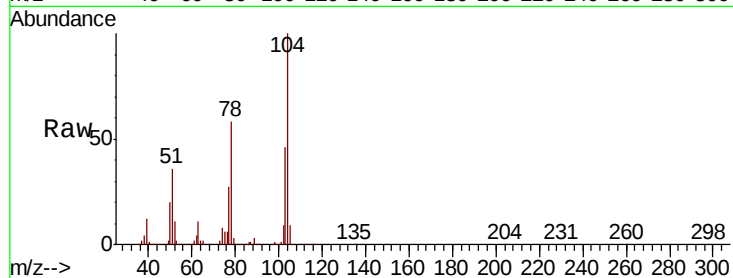
#61
Stvrene
Concen: 10.520 ppbv
RT: 13.59 min Scan# 3359
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.5	47.8	71.8
103	48.2	39.0	58.6

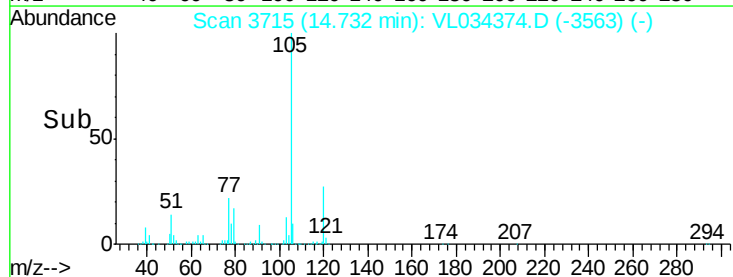
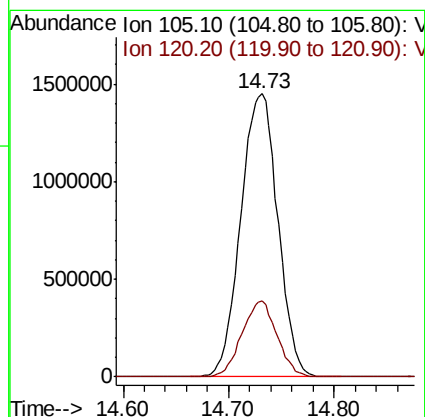
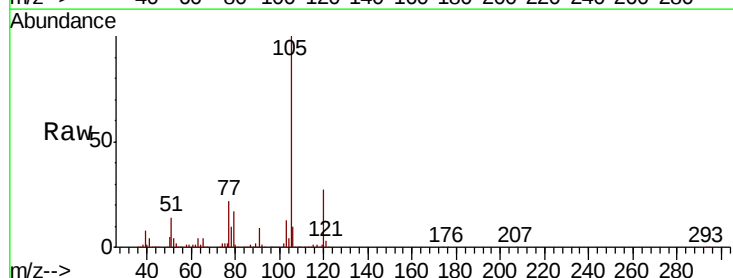
Manual Integrations
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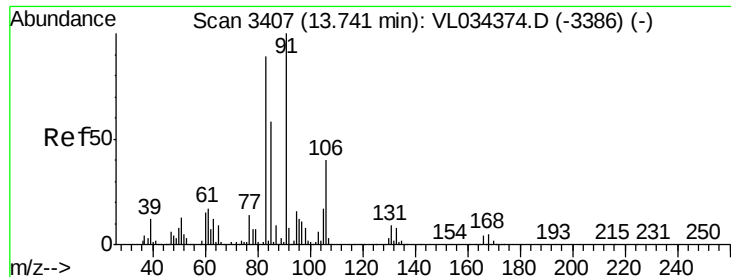
MMDadoda
11/20/2019 3:52:54 PM



#62
Isopropylbenzene
Concen: 9.748 ppbv
RT: 14.73 min Scan# 3715
Delta R.T. -0.01 min
Lab File: VL034374.D
Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.8	31.2





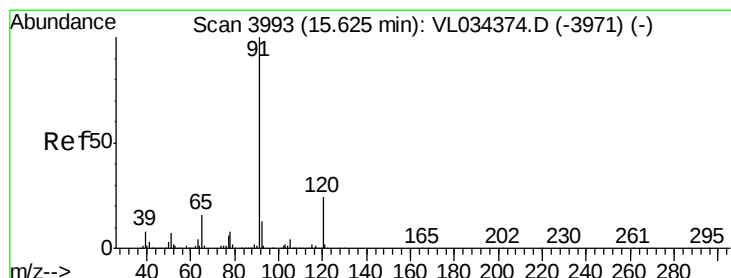
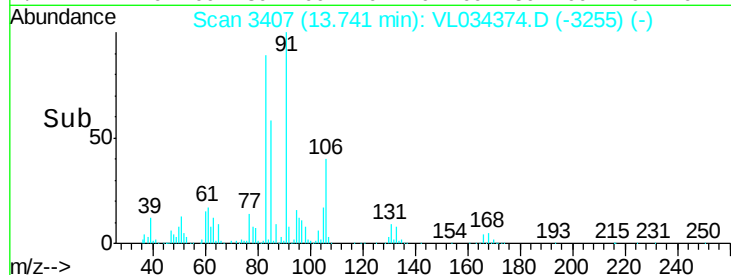
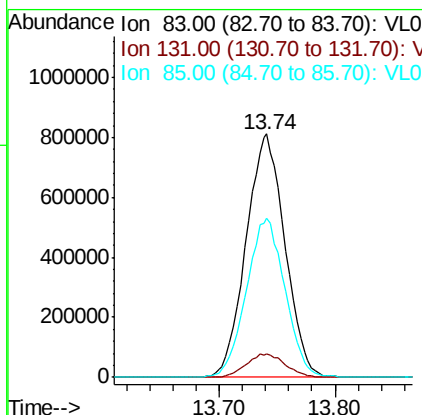
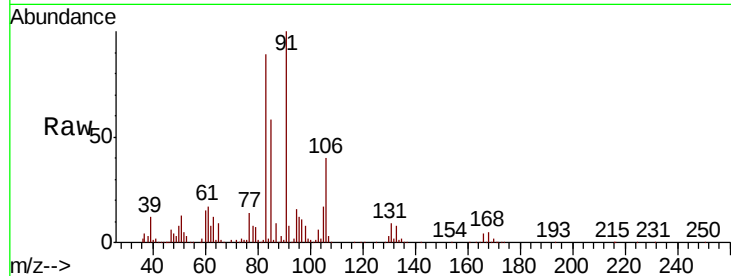
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.519 ppbv
 RT: 13.74 min Scan# 3407
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	1886379
Ion Ratio	100	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	65.2	32.5	97.4

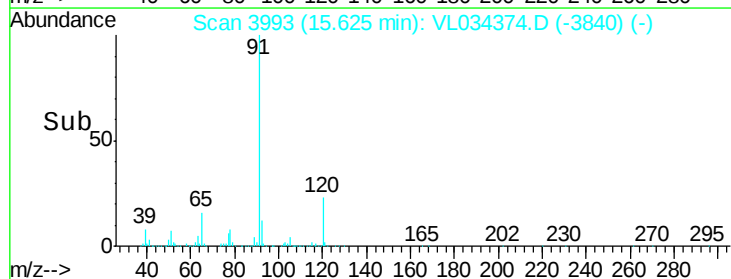
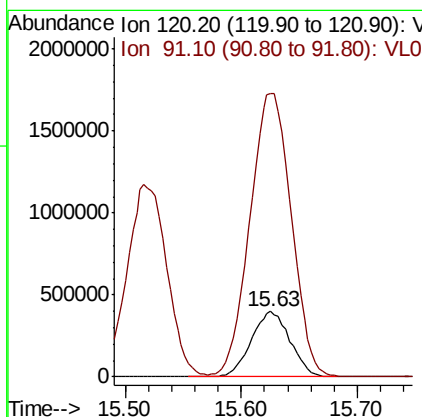
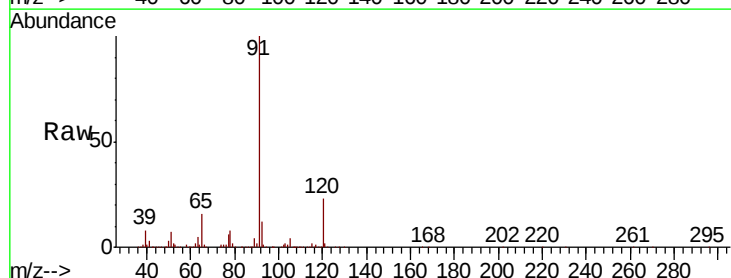
Manual Integrations
 APPROVED

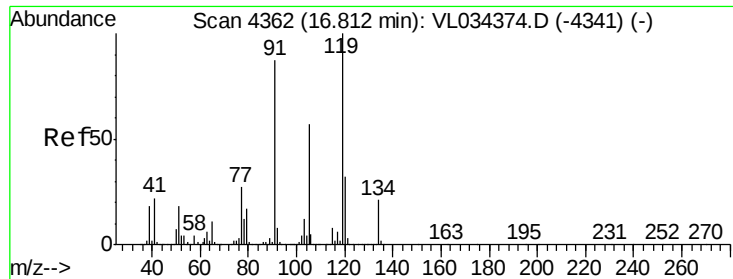
MMDadoda
 11/20/2019 3:52:54 PM



#64
 n-propylbenzene
 Concen: 9.941 ppbv
 RT: 15.63 min Scan# 3993
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion	120	Resp	927981
Ion Ratio	100	Lower	Upper
120	100		
91	463.6	374.9	562.3





#65

tert-Butylbenzene

Concen: 9.703 ppbv

RT: 16.81 min Scan# 4362

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3128206

Ion Ratio Lower Upper

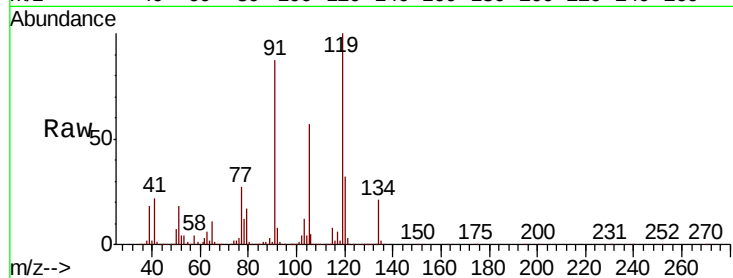
119 100

91 89.5 71.4 107.0

134 19.9 15.9 23.9

Manual Integrations
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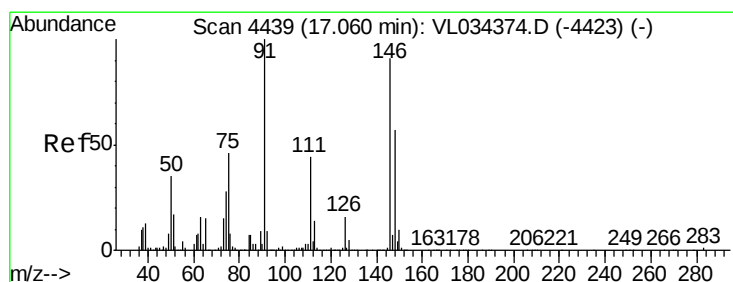
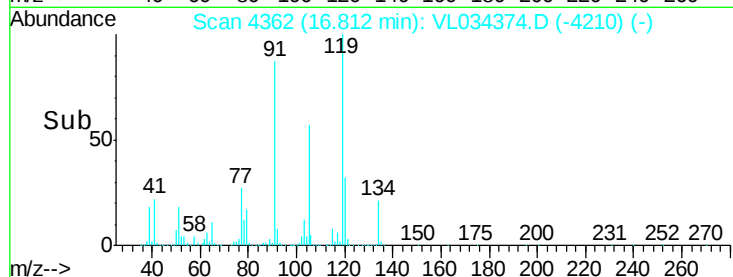
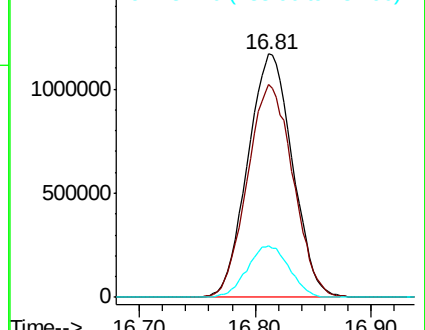
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.964 ppbv

RT: 17.06 min Scan# 4439

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

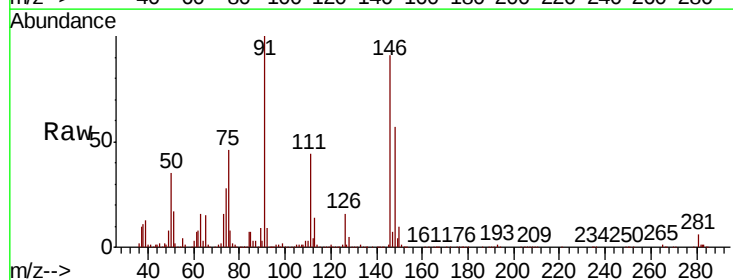
Tgt Ion: 91 Resp: 1523315

Ion Ratio Lower Upper

91 100

126 16.1 12.9 19.3

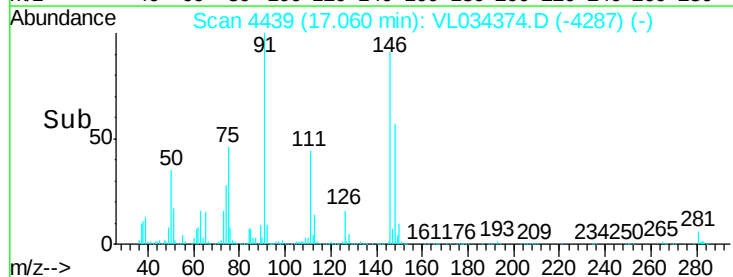
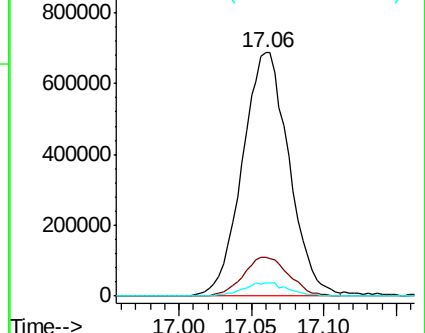
128 5.4 4.3 6.5

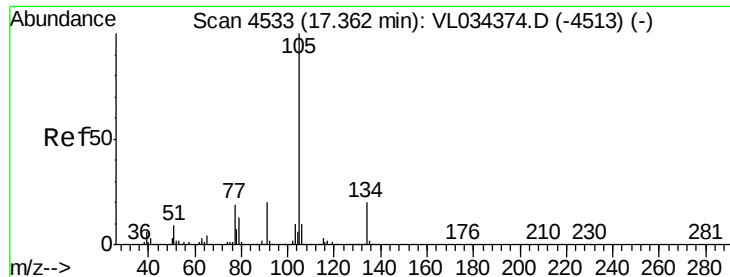


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.522 ppbv

RT: 17.36 min Scan# 4533

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 4319791

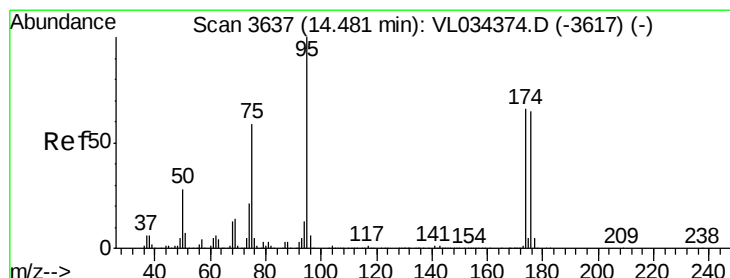
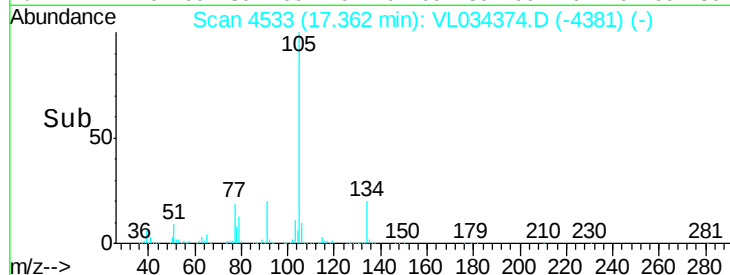
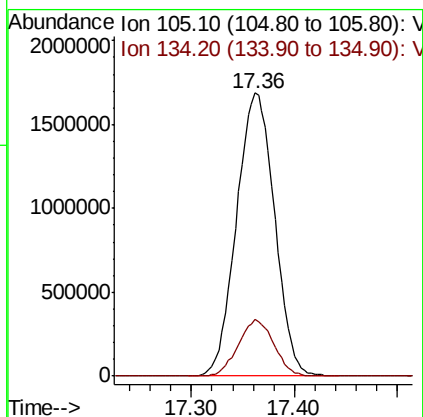
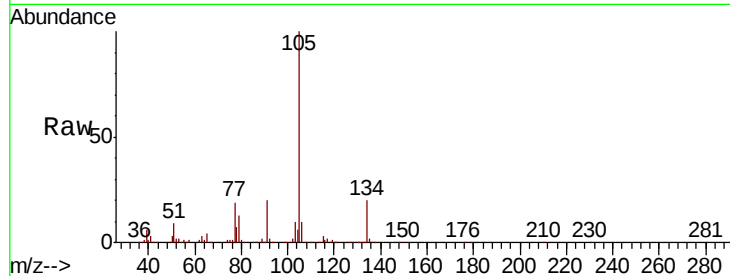
Ion Ratio Lower Upper

105 100

134 18.8 15.4 23.0

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 9.878 ppbv

RT: 14.48 min Scan# 3637

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

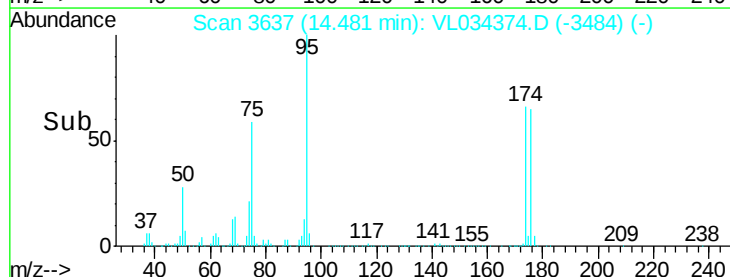
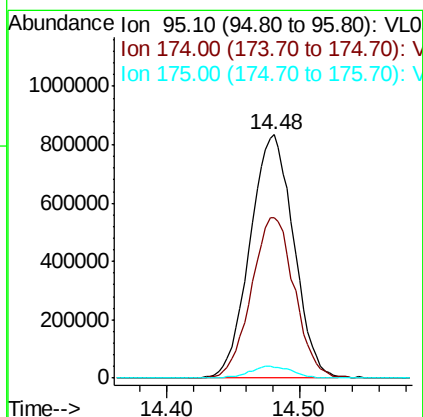
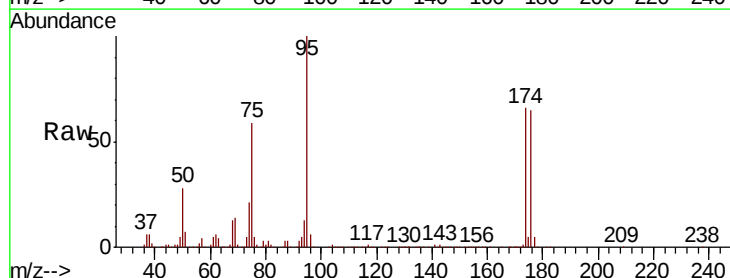
Tgt Ion: 95 Resp: 1911448

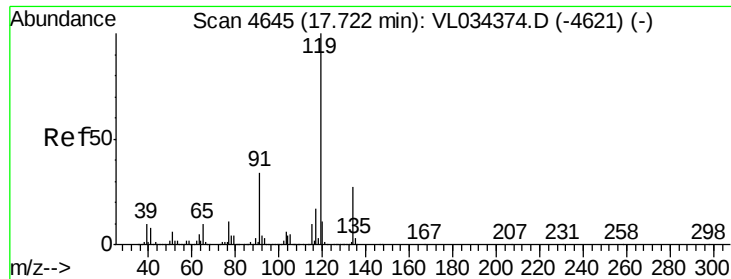
Ion Ratio Lower Upper

95 100

174 65.2 52.6 78.8

175 4.8 3.8 5.6





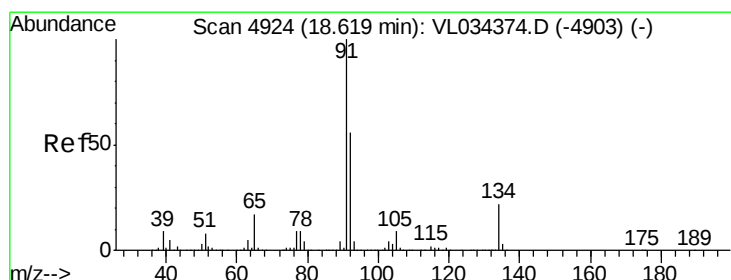
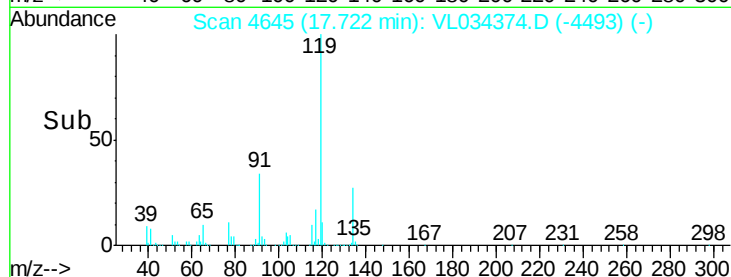
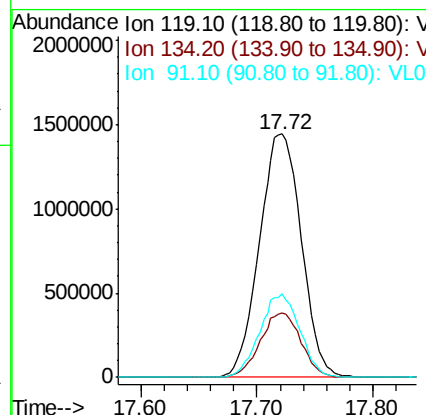
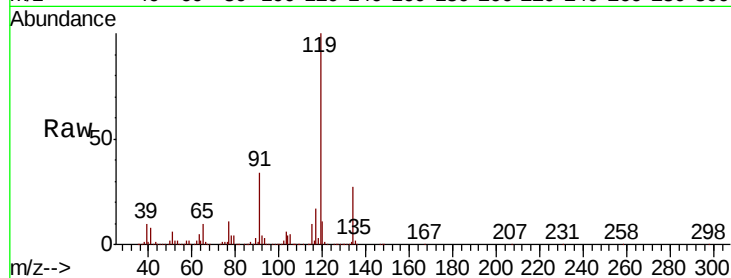
#69
 p-Isopropyltoluene
 Concen: 9.786 ppbv
 RT: 17.72 min Scan# 4645
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	21.3	31.9
91	32.9	26.6	39.8

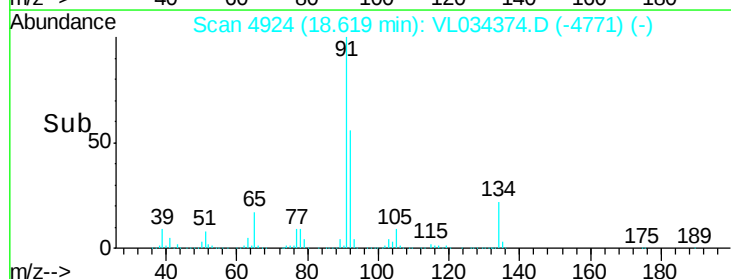
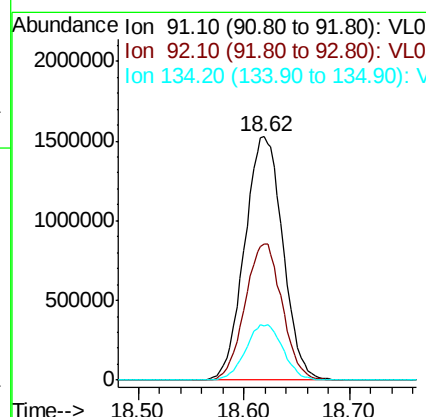
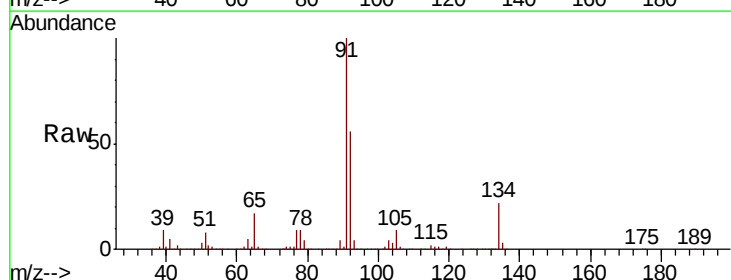
Manual Integrations
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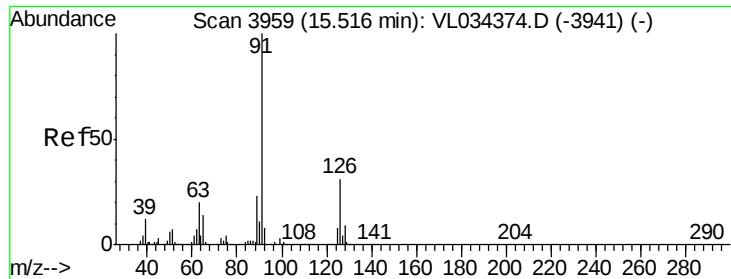
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.522 ppbv
 RT: 18.62 min Scan# 4924
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.7	44.5	66.7
134	22.4	18.2	27.2





#71

2-Chlorotoluene

Concen: 9.959 ppbv

RT: 15.52 min Scan# 3959

Delta R.T. -0.02 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2808849

Ion Ratio Lower Upper

91 100

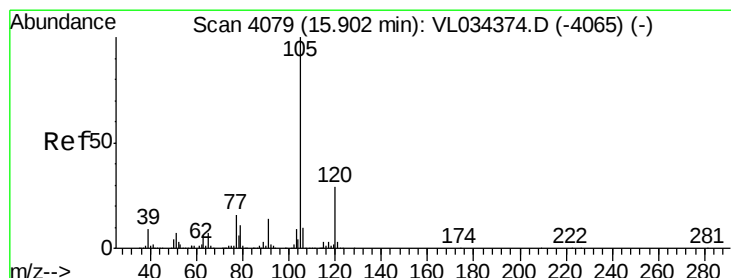
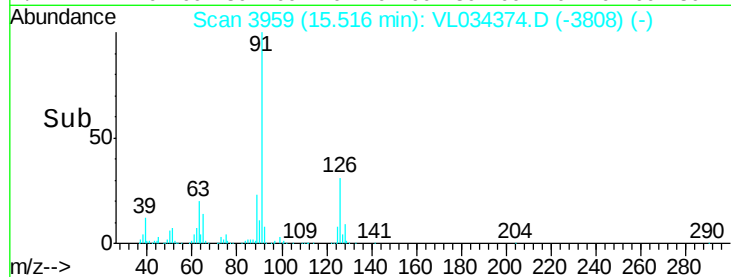
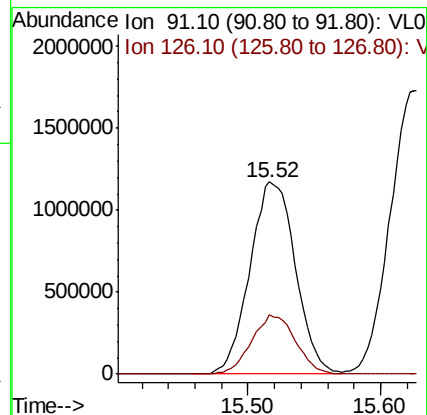
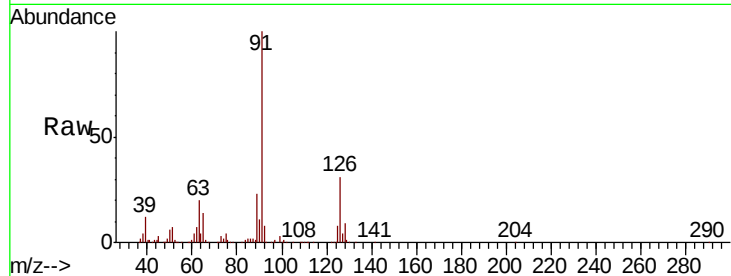
126 29.6 11.9 47.5

Manual Integrations

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#72

4-Ethyltoluene

Concen: 10.063 ppbv

RT: 15.90 min Scan# 4079

Delta R.T. -0.02 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Tgt Ion: 105 Resp: 3116971

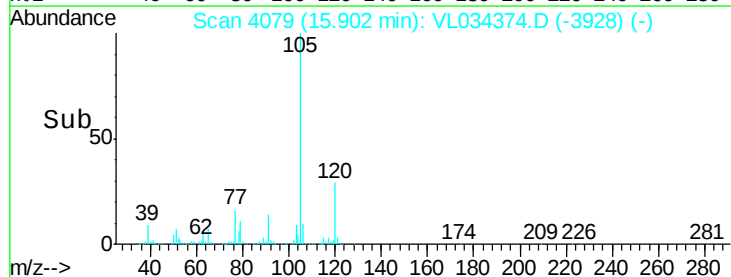
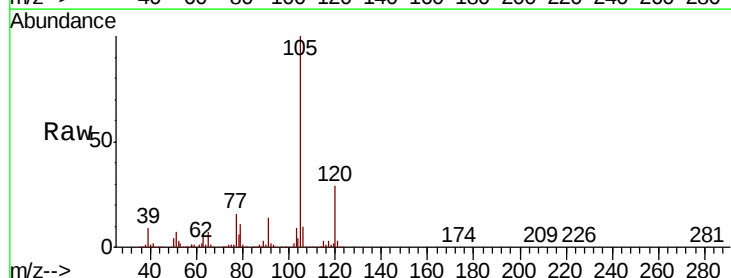
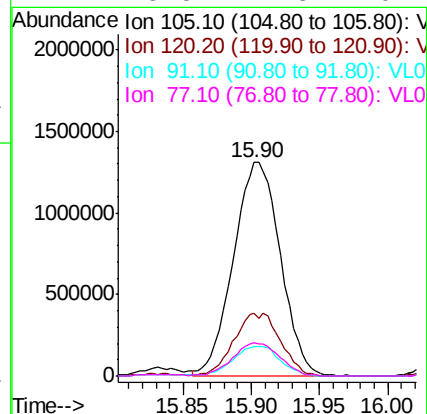
Ion Ratio Lower Upper

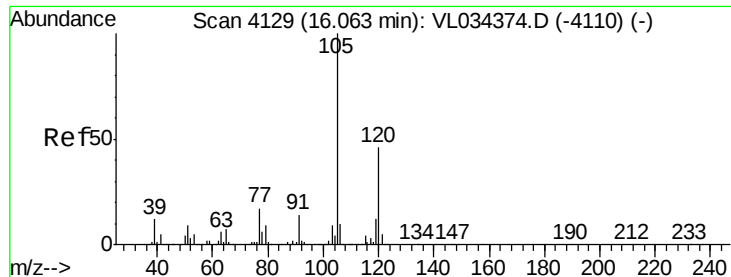
105 100

120 29.4 23.8 35.8

91 14.2 11.2 16.8

77 15.8 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 9.819 ppbv

RT: 16.06 min Scan# 4129

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 3013369

Ion Ratio Lower Upper

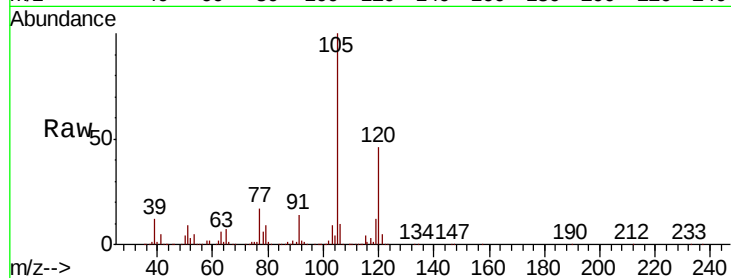
105 100

120 46.4 35.2 52.8

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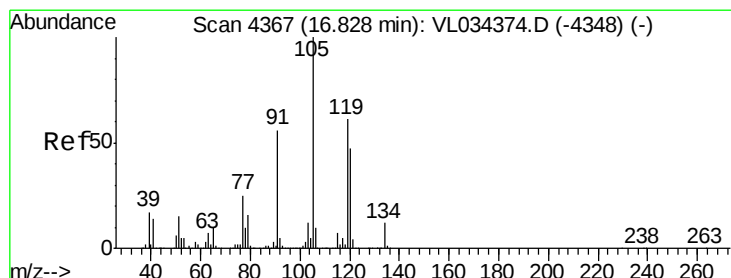
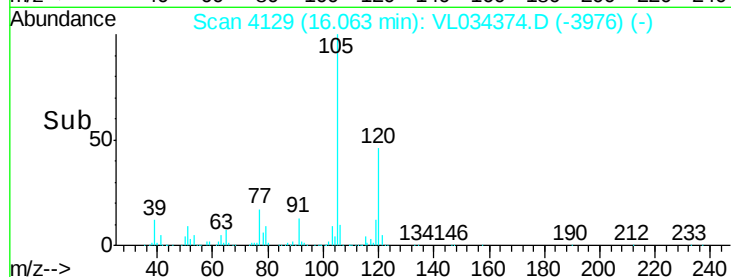
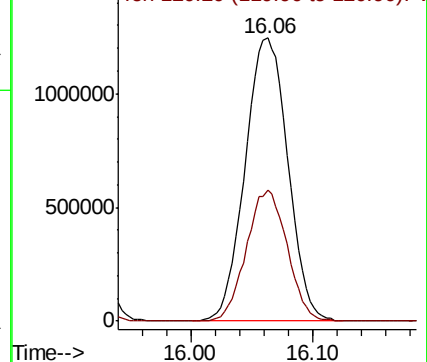
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.572 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. -0.02 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Tgt Ion:105 Resp: 3063462

Ion Ratio Lower Upper

105 100

120 46.7 37.0 55.6

91 57.9 38.2 57.2#

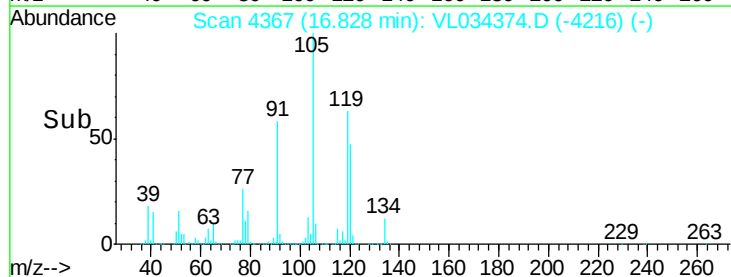
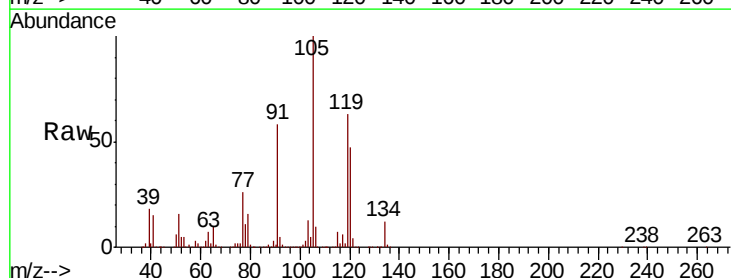
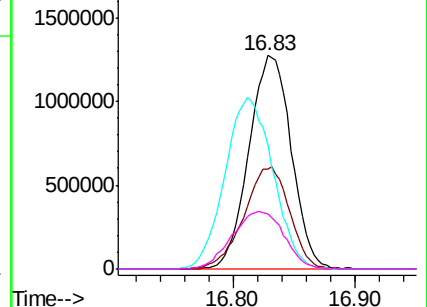
77 25.7 19.0 28.4

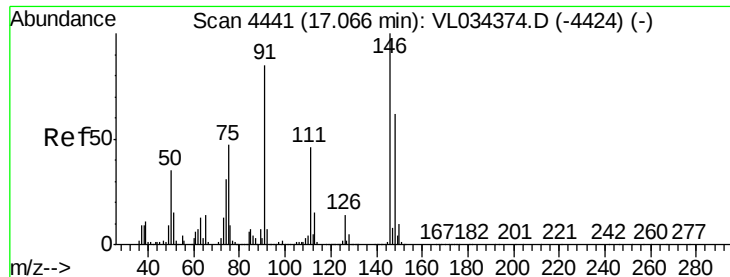
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





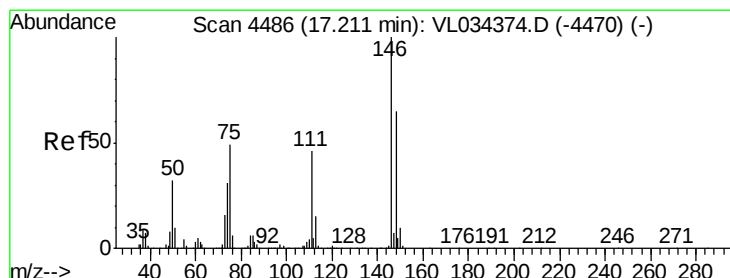
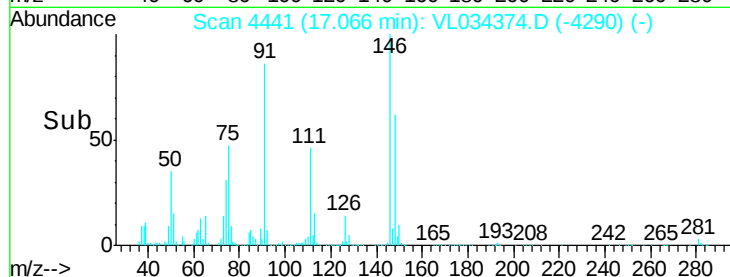
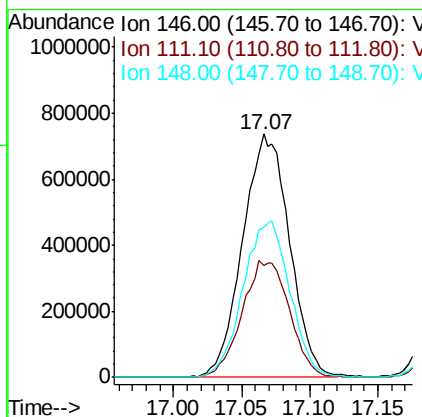
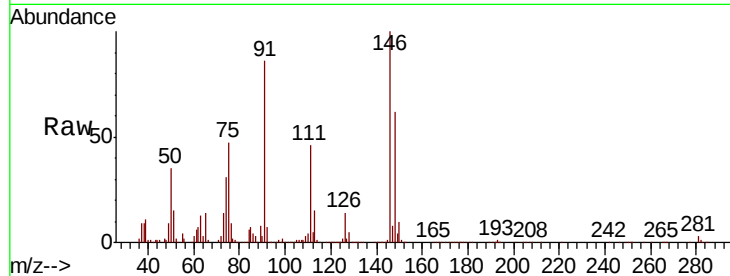
#75
 1,3-Dichlorobenzene
 Concen: 9.116 ppbv
 RT: 17.07 min Scan# 4441
 Delta R.T. -0.02 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.9	24.5	73.5
148	64.7	32.3	96.8

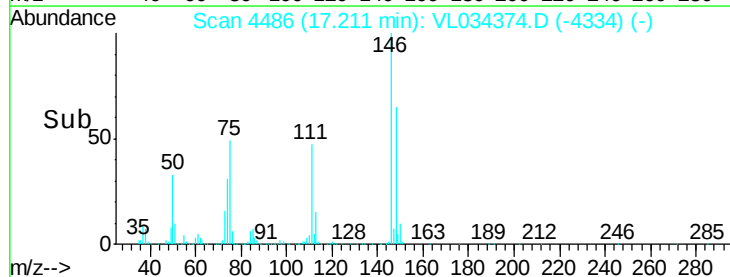
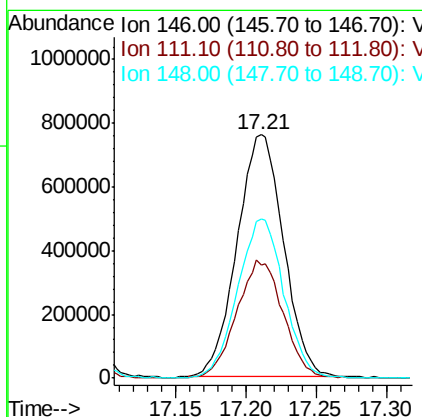
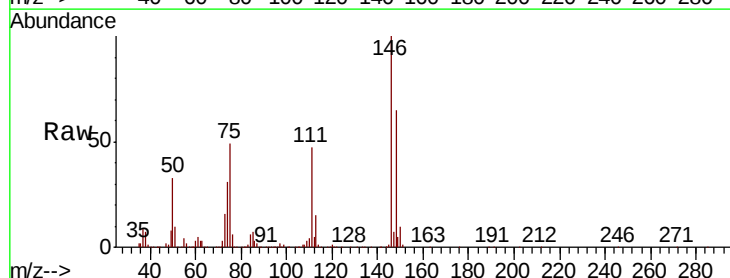
Manual Integrations
 APPROVED

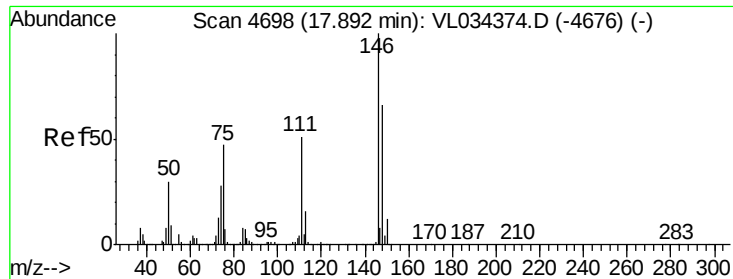
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#76
 1,4-Dichlorobenzene
 Concen: 9.367 ppbv
 RT: 17.21 min Scan# 4486
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.2	23.9	71.7
148	65.7	33.1	99.2





#77

1,2-Dichlorobenzene

Concen: 9.068 ppbv

RT: 17.89 min Scan# 4698

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :
MSVOA_L

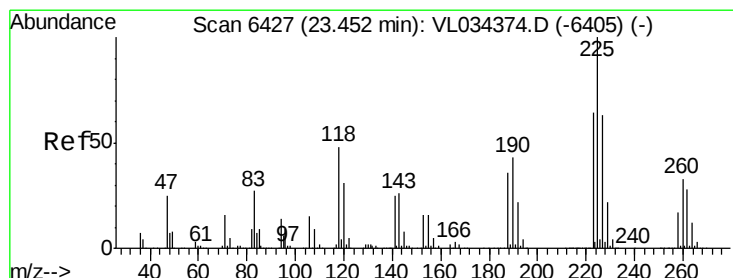
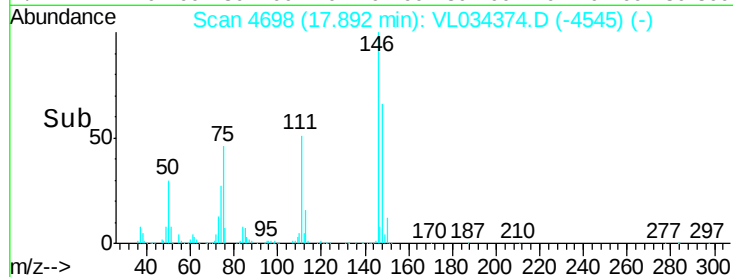
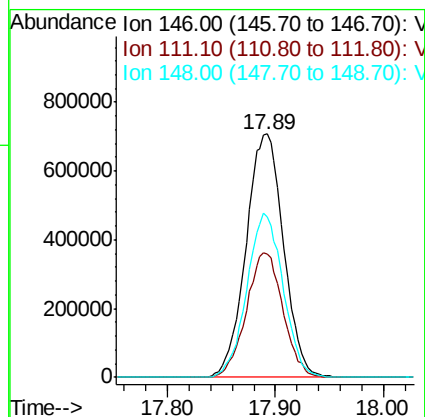
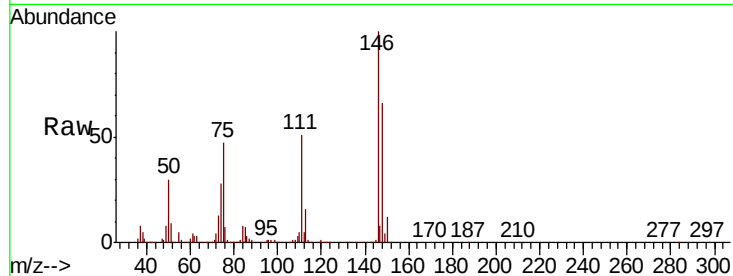
ClientSampleId :
VSTDICCC010

Tot Ion:146 Resp: 1708186

Ion	Ratio	Lower	Upper
146	100		
111	50.0	25.1	75.3
148	65.4	32.3	96.8

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#78

Hexachloro-1,3-Butadiene

Concen: 9.153 ppbv

RT: 23.45 min Scan# 6427

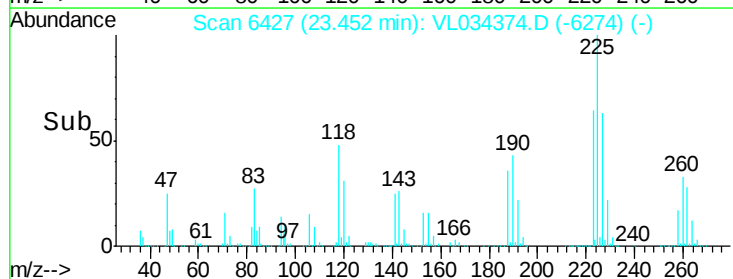
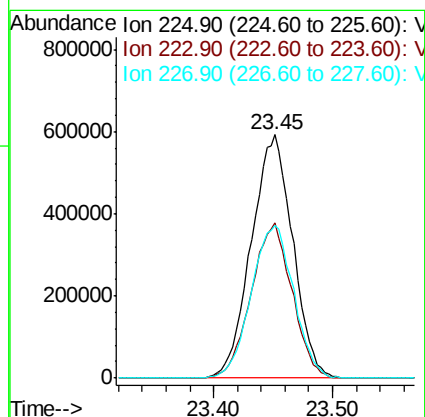
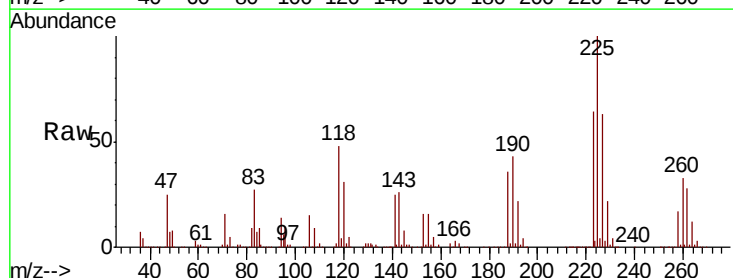
Delta R.T. -0.01 min

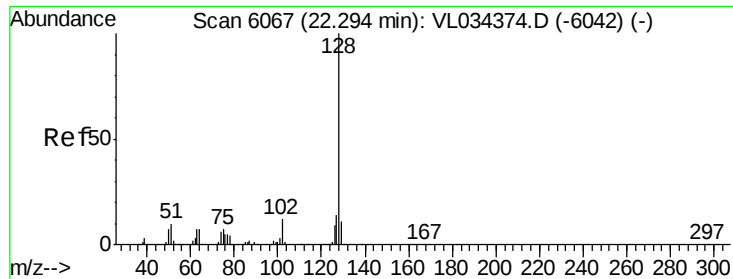
Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Tgt Ion:225 Resp: 1426326

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.8	76.2
227	64.4	51.5	77.3





#79

Naphthalene

Concen: 11.695 ppbv

RT: 22.29 min Scan# 6067

Delta R.T. -0.02 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 2734147

Ion Ratio Lower Upper

128 100

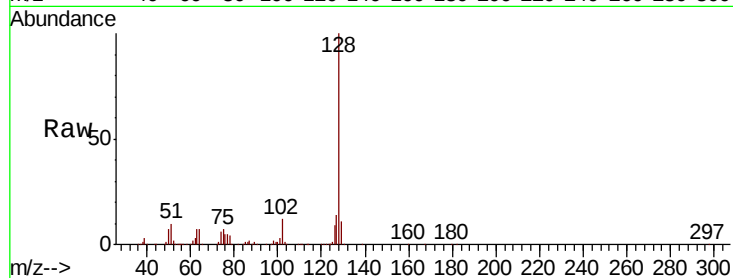
127 13.8 10.2 15.4

129 11.1 8.9 13.3

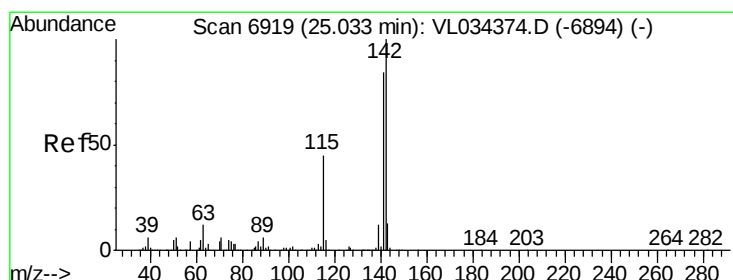
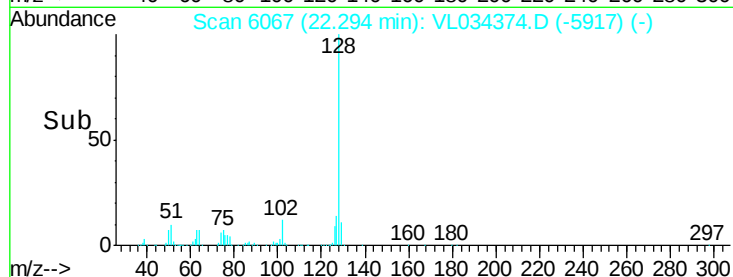
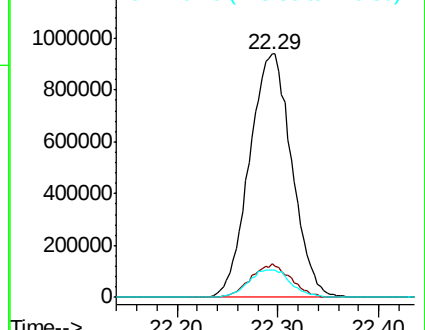
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 22.515 ppbv

RT: 25.03 min Scan# 6919

Delta R.T. -0.01 min

Lab File: VL034374.D

Acq: 19 Nov 2019 9:49

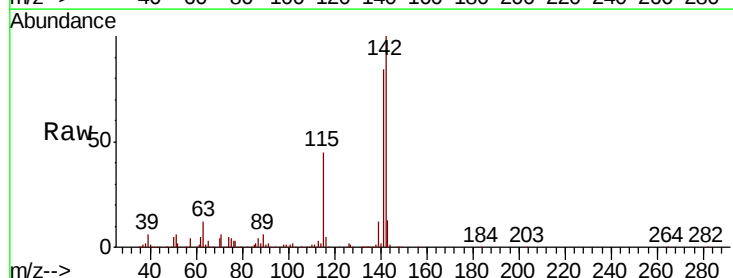
Tgt Ion:142 Resp: 1521462

Ion Ratio Lower Upper

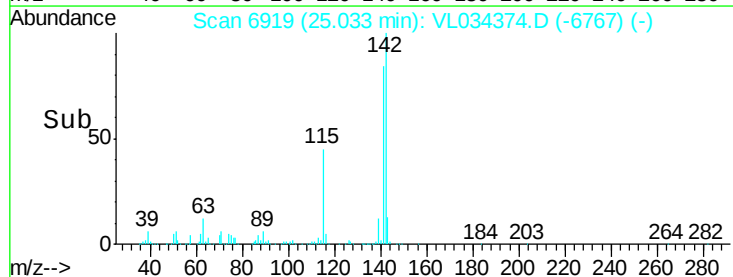
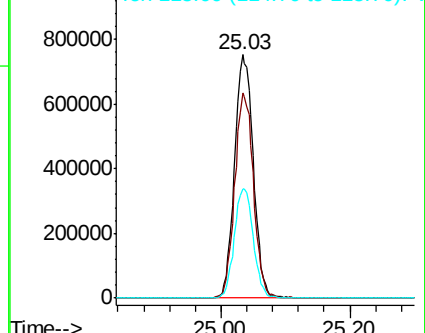
142 100

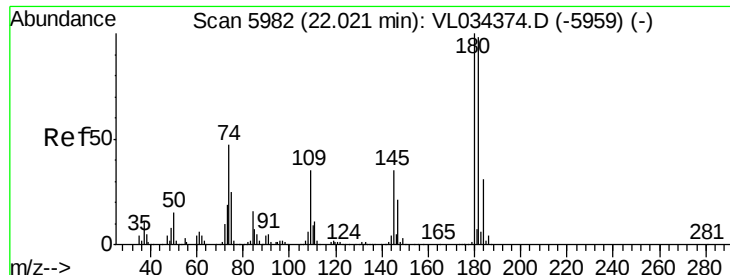
141 83.9 65.7 98.5

115 45.7 30.9 46.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.747 ppbv
 RT: 22.02 min Scan# 5982
 Delta R.T. -0.01 min
 Lab File: VL034374.D
 Acq: 19 Nov 2019 9:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.8	116.8
184	31.1	25.4	38.2

Manual Integrations
 APPROVED

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